Verson1.0

National Forest Inventory Programme of India

Manual for Field data collection of Trees Outside Forest (TOF) Inventory

Forest Survey of India
Ministry of Environment, Forest and Climate Change
Kaulagrah Road
Dehradun

Field Instructions
For
Data Collection
of
Trees Outside Forest (TOF) Inventory

Preface

Trees growing outside the forests in the form of block plantations, on homesteads, private lands, farmlands, bunds of agricultural farms and other non-forest lands play a significant role in fulfilling the demand of timber and fuelwood of the country. With implementation of many social/community forestry programme in the country, the production from such areas has increased manifold. The production from TOF has assumed further importance due to ban of felling of trees from recorded forest areas except under the prescription of working plan. The annual production of timber from the recorded forest area as per the latest Forestry Statistics India is 4 million cum which is small in comparison to the total demand of timber in the country. Major portion for the demand of wood is being met from TOF. Further, the Central Statistical Organisation requires the annual production of timber from TOF for calculation of GDP of forestry sector. At state level, the information on annual production of timber from outside forest area is required for issuing new licenses and expansion of existing licenses for wood-based industries as per the directives of the Supreme Court.

Considering the importance of the TOF, FSI has been carrying out inventory of the TOF regularly since 1990. In the beginning the assessment was carried out on village based sampling design but since 2002, with launching of NFI, RS based methodology was developed for generation of sample points in TOF rural.

Prior to any field inventory, the preparation of field manual is one of the basic and important step for successful execution of fieldwork. The document describes the standards, codes, methods and definitions of Forest Inventory and TOF field data items. The objective is to describe field procedures that are consistent and uniform across all units. The information obtained through the inventory is used to estimate forest land area, tree volume, mortality, understory composition and other related resources. This information provides periodic analysis of Forest and TOF resources which are published and available to resource planners, managers and the public.

I take this oppurnity to place on record the efforts made by officers/officials of TFI division. The inputs received from the zonal offices are also acknowledges with thanks. I am sure, this manual will be helpful for planners and data collectors

Dated (Dr. Subhash Ashutosh)
Place: Dehradun

Acronyms and Abbreviations

B.T	Bark Thickness
BWF	Bamboo Weight Form
CAMPA	Compensatory Afforestation Fund Management and Planning Authority
CM	Centimetre
CR	Conservation Reserve
CW1	Crown Width 1
CW2	Crown Width 2
DBH	Diameter at Breast Height
DBHOB	Diameter at Breast Height over Bark
DES	Data Entry Section
Dia	Diameter
Div.	Division
ESACP	European Space Agency Copernicus Programme
FAO	Food and Agriculture Organization of United Nation
FD	Forest Division
FI	Forest Inventory
FSI	Forest Survey of India
GIS	Geographical Information System
Govt	Government
GPS	Global Positioning System
Ha	Hectare
HQ	Headquarter
Hrs	Hours
IV Unit	Investigator Unit
IRS	Indian Resource Satellite
IST	India Standard Time
JTA	Junior Technical Assistant
Km	Kilometre
Lat	Latitude
LISS- IV Mx	Linear Imaging Self- Scanning Sensor IV Maximum
Long.	Longitude
LUC	Land Use Class
MRV	Magnetic Resonance Venography
NE	North East
NFI	National Forest Inventory
NFMA	National Forest Monitoring and Assessment
NP	National Park
NRSC	National Remote Sensing Centre
NSSO	National Sample Survey Office
NTFP	Non Timber Forest Products
NW	North West
OSM	Open Series Map
PEF	Plot Enumeration Form

PF	Protected Forest
Phy. Zone	Physiographic Zone
PIS	Pre Investment Survey
REDD+	Reducing emissions from deforestation and forest degradation
RF	Reserve Forest
RFA	Recorded Forest Area
SE	South East
SOI	Survey of India
Spp. Code	Species Code
STA	Senior Technical Assistant
STF	Sample Tree Form
SW	South West
TOF	Trees Outside Forest
TOFR	Trees Outside Forest (Rural)
TOFU	Trees Outside Forest (Urban)
UFS	Urban Frame Survey
UN- CBD	United Nation Convention on Biological Diversity
UN- CCD	United Nation Convention to Combat Desertification
UNDP	United Nation Development Programme
UN- FCCC	United Nation Framework Convention on Climate Change
UT	Union Territory
WGS	*World Geodetic System*
WL	Wild Life
WLS	Wild Life Sanctuary
Wt	Weight

Abbreviations used for Measurement

Cm	Centimetre
Ha	Hectare
Hrs	Hours
M	Meter
Wt	Weight
Km	Kilometre
mm	millimetre
Kg	Kilogram

Glossary

Aspect	The compass direction toward which a slope faces.
Biomass	Forest biomass is organic matter expressed as oven-dry tones per unit area; it can be referred to as biomass density when expressed as mass per unit area. Approximately 50 % of dry forest biomass is carbon.
Biotic Influences	Ability of trees to survive in an ecosystem. Living things in the environment such as plants, animals, and bacteria**.**
Blaze	To mark a tree, usually by painting or cutting the bark.
Bole	The trunk of a tree.
Caliper	A tool to measure the diameter of a tree
Canopy	The cover of branches and foliage formed by the crowns of trees.
Canopy Cover	The percentage of the ground covered by a vertical projection of the outermost perimeter of the natural spread of the foliage of plants.
Canopy Density	Percent area of land covered by the canopy of trees. It is expressed as a decimal coefficient, taking closed canopy as unity.
Carbon Pool	Carbon pools are major components of an ecosystem that can either accumulate or release carbon.
Clinometer	An instrument used to determine the height of a tree
Codominant tree	A tree that extends its crown into the canopy and receives direct sunlight from above but limited sunlight from the sides. One or more sides of a codominant tree are crowded by the crowns of dominant trees
Crop Composition	A silviculturaly growing and tending stands of trees.
Crown Area	It is the area of horizontal projection of a tree crown on the ground.
Cull	A sawtimber sized tree that has no timber value as a result of poor shape or damage from injury, insects or disease
Degraded Forest	Reduction in the capacity of a forest to produce ecosystem services such as carbon storage and wood products as a result of anthropogenic and environmental changes.
Diameter at breast height (dbh)	Standard measurement of a tree's diameter, usually taken at 1.37 meter above the ground.
DominantTrees	Trees that extend above surrounding individuals and capture sunlight from above and around the crown.
Foliage	A leafy part of a tree or plant.
Forest Area	The forest area recorded as a forest in the Government records. It is also referred as “recorded forest area”.
Forest Inventory	The measurement of certain parameters of forest to assess the growing stock and other characteristics of forest.
Fork	A tree defect characterized by the division of a bole or main stem into two or more stem
Girdling	The complete removal of a strip of bark (consisting of cork cambium or "phellogen", phloem, cambium and sometimes going into the xylem) from around the entire circumference of either a branch or

	trunk of a woody plant
Green Wash	The extent of wooded areas generally shown in light green colour on the SOI toposheets.
Growing Stock	The sum (by number or volume) of all the trees growing/living in the forest or a specified part of it.
Hypsometer	Instruments designed to measure the height of trees
Illicit Felling	Any felling of trees done in a state forest, without permission granted by authorized bodies
Intensity of Regeneration	Increasing the planting density by establishing young trees naturally or artificially. The process by which a forest is reseeded and renewed.
Invasive Species	Species that are non-nature to a particular eco-system and whose introduction and spread causes, or likely to cause socio-cultural, economic or environmental harm (including forest eco system) or harm to human health.
Litter	Woody material of trees having diameter < 5 cm which is not decomposed.
Natural Calamites	A sudden and terrible event in nature (such as a hurricane, tornado, or flood) that usually results in serious damage of forest eco system.
Origin of Stand	An aggregation of trees or other growth occupying a specific area and sufficiently uniform in species composition, size, age, arrangement, and condition as to be distinguished from the forest or other growth on adjoining areas.
Reserved Forests	An area so constituted under the provisions of the Indian Forest Act or other State Forest Acts, having full degree of protection. In reserved forests all all activities are prohibited unless permitted.
Remote sensing	Remote sensing is the acquisition of data, such as forestarea, forest type, canopy cover and height , from sensors on board aircraft or space based platforms.
Size Class	Tree species designated by size classes through their life development
Spatial Resolution	The minimum area on the earth's surface that can be captured by a satellite sensor vas being separate from its surroundings and is represented by a "pixel"
Sustainable Forest Management	The environmentally appropriate, socially beneficial, and economically viable management of forests for present and future generations**.**
Tree Outside Forest (TOF)	Trees growing outside recorded forest areas.
Urban Sample Frame (USF)	Blocks having well defined boundaries within the geographical boundary of town including vacant lands.
Wild Life Protected Area	Any Protected areas or conservation areas which receive protection because of their recognized natural, ecological or cultural values. Declared under the Wild Life Protection Act-1972.

Contents

Chapter-1

Introduction

Trees outside Forest (TOF) refers to trees growing outside the recorded forest area. These trees are found in the forms of village woodlots, block plantations in agriculture fields, trees on farm bunds of, trees along linear features such as along road, canal, railway line, trees in urban setting, scattered trees in rural and urban areas. They make a critical contribution in agriculture, food security and rural household economies. They supply many products (e.g. wood for fuel and construction, fodder, fruits, bark and food) and services (e.g. biodiversity, carbon storage, habitat for wildlife, micro climatic stabilization, soil and water conversion). As agroforestry systems, they serve a number of ecological and economic functions that are similar to those of forests in principle, although different in extent.

A classification of TOF is required to better understand the structure and composition of the resource. It facilitates uniformity in resource evaluation and comparability of inventory results. A formal classification system is particularly necessary to enable presentation on maps. The broad classification of TOF resources can be done either according to land use such as trees in urban area, trees associated with permanent crops, trees associated with annul crops, trees along line features etc or according to geometric formation such as trees in lines, tress in groups and scattered trees.

1.1 Justification of inventorying TOF

Any inventory of natural resources is costly and therefore requires an objective justification, which usually embraces the economic, social and ecological role of the resources. The intended information should satisfy user needs. The TOF resources in general are independent of forest resources and are an integral part of the non-forest landscape having ecological and economic functions of their own. Therefore, they should be taken into consideration in large area natural resource planning.

In India an inventory of TOF resources and their actual contribution to timber and fuelwood supplies was not perceived necessary prior to 1991. In some states, wood balance studies were undertaken as an important component of the social forestry projects during the 1980s. Some States in India (e.g. Himachal Pradesh, Haryana, Gujarat, West Bengal, Orrisa) conducted wood balance studies to estimate total wood consumption and production. At that time, data on TOF did not exist. The production of wood from TOF was either roughly estimate or outright ignored. The time available to collect on TOF was inadequate and inventory methods were not yet developed.

1.2 Inventory of TOF by FSI

FSI started TOF inventories in 1991. Separate methods were developed for rural and urban TOF. The methodology of TOF inventory was village based. The inventory was

carried out in group of districts or states after stratification of the study area into agro ecological zones. The sample size for the study was calculated after conducting a pilot study in 10 -15 villages. The sample size was distributed to different agro climatic zone according to their area. Villages were then selected randomly for carrying out the inventory. For the survey of urban areas UFS blocks of NSSO were taken as the sampling unit.

The villages base methodology was continued till 2002. After launching of NFI in 2002, the methodology of TOF has been changed. The methodology used for inventory of TOF rural was based on high resolution satellite data. The Satellite data was used for stratification of TOF resources into block, linear and scattered stratum. Optimum sample size has been determined on the basis of pilot studies conducted by FSI. Plots of appropriate size are laid out for data collection in the field.

With the implementation of new NFI design since 2016, the TOF inventory is being carried out in selected grids. For Rural inventory block , linear and scattered stratum are selected from each selected grid. For urban areas list of selected towns corresponding to selected grids are given to zonal offices for selection of UFS block maps.

Inventories carried out at optimum number of sample plots determined on the basis of pilot study. For urban areas, NSSO UFS blocks based methodology was continued. The sample design was again changed from district from grid based from 2016.

1.3 Scope and purpose of the manual

This manual has been developed for field data planners and collectors as well as trainers and field inventory supervisors. The first volume of the manual deals with the forest inventory and second volume deals with the TOF inventory. It describes the sampling design used for the survey in TOF inventory, layout design of sampling plot, formation of field crew, organisation of field work, field forms to record different measurements and detailed instruction to fill up the various field forms.

Chapter-Two

TOF Rural and Urban Inventory: Sampling Design and organisation of field work

2.1 Scope of TOF Inventory

For the purpose of laying out of the sample plots for TOF inventory, entire area outside the recorded forest area is considered. Separate methodology is used for inventory of TOF Rural and TOF Urban. List of sample plots in case of TOF Rural is generated by FSI Headquarters. For urban TOF, list of towns is supplied by FSI headquarters and UFS blocks maps are taken by zonal offices.

2.2 Sampling design for NFI

The sampling design described here is the new sampling design, which is in vogue since 2016. Under the new NFI design, nation-wide uniform grids of size 5 km x 5 km has been taken from the NRSC. A depiction of the same has been given in figure-1. For forest inventory, the revisit time has been fixed as 5 year and for TOF inventory, the revisit time has been fixed as 10 year. Accordingly, for forest inventory, all grids are numbered as 1 to 5 and for TOF inventory, the grids are numbered as 1 to 10.(Figure 1)

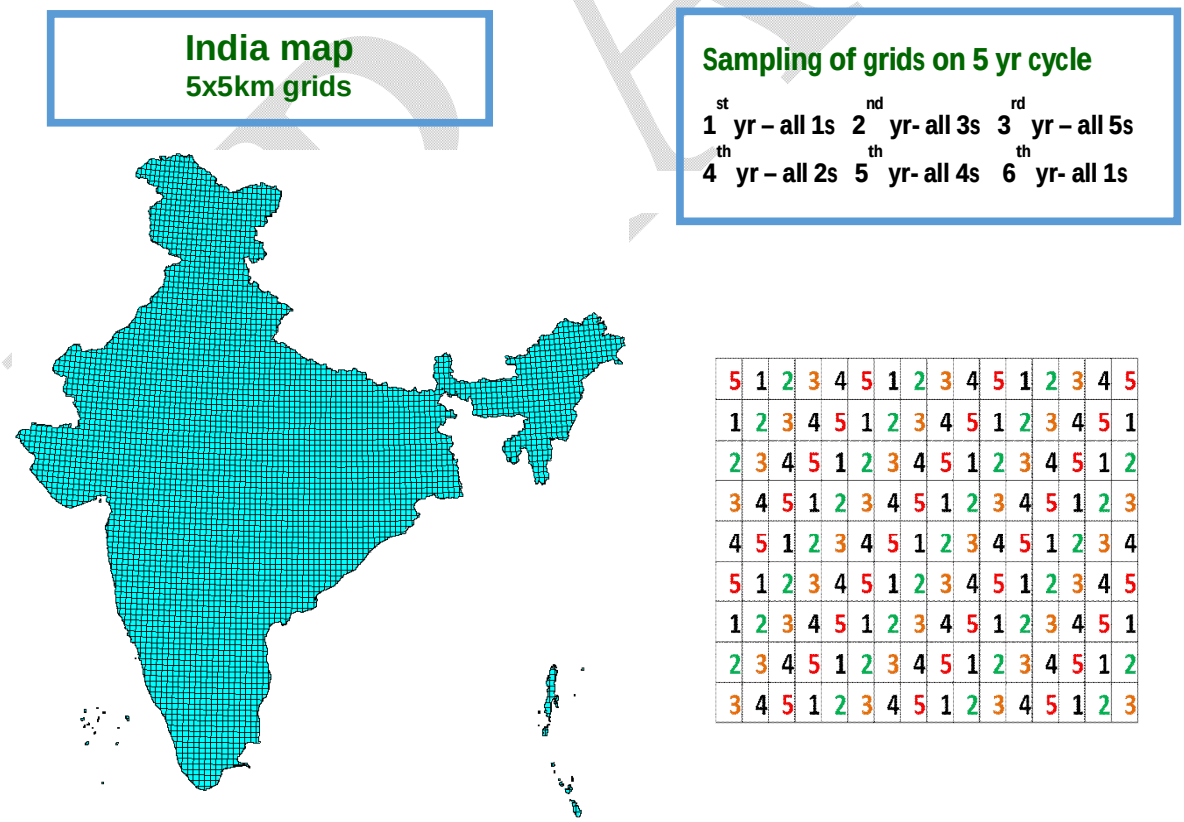

Figure-1 Layout of Gids

2.2.1. Sampling design for TOF Rural

Within the selected grids for a particular year, two -phase sampling design is used. In the first phase, grids are stratified into block, linear and scattered stratum using high resolution remote sensing satellite data. In the second phase, one random sample point will be laid out in each grid. Generally, in a grid there will be one sample point. The list of selected grids and plot centre with latitude and longitude will be provided by the headquarters to zonal offices. The methodology used for stratification of tree resources of the grid into block, linear and scattered is described as follows:

For TOF(Rural), the Multispectral Image (MSI) data of Sentinel 2 will be used which has a 10-meter resolution with 290 km wide swath, a high resolution Multispectral Image Satellite of European Space Agency Copernicus Programme(ESACP). There are 13 bands in total having different resolution varying from 10 meter to 60 meter. For TOF(Rural), bands which have a resolution of 10 meter will be used for classification. The revisit time of satellite is 10 days. The Multispectral Image from the satellite will be downloaded, then it will be geo-rectified with the help of Survey of India (SOI) toposheets on the scale of 1: 50,000 scale or OSM series map whichever is available. Since mapping of TOF areas is the objective, the boundary of forest area is digitized wherever digital RFA boundary of the state is not available and masked out. The image is then classified into settlements, water bodies, tree cover, agriculture and other land covers. This classification enables the interpreter to distinguish between tree cover and other classes. The classified image is visually analysed for editing and refinement. Since the minimum mappable area is 0.1 ha, pixels are clumped and cluster of pixels having area less than 0.1 ha are eliminated. After editing of the classified image, the final classified map is generated having three classes in TOF areas, namely: Block, Linear and Scattered. From the classified TOF map, area under each category (stratum) is calculated. In addition, areas which do not support tree vegetation, like rivers and water bodies, riverbeds, snow covered mountains, etc. which is termed as Un-Culturable Non Forest Area are also calculated. The schematic chart of methodology of TOF using remote sensing is depicted in the following Figure.

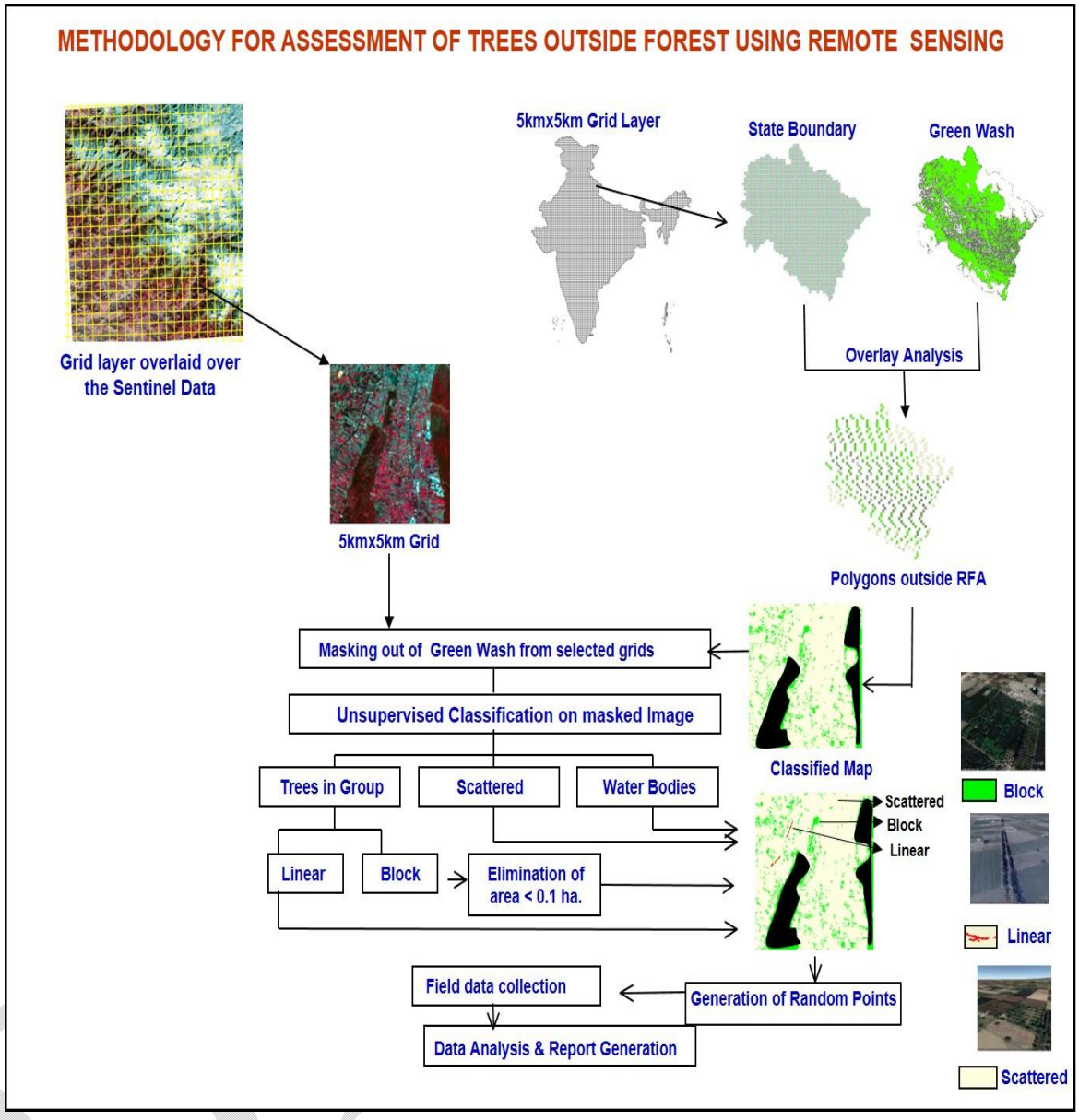

Fig.2: Schematic Chart of Methodology of TOF

The optimum size of the plot for each stratum has been determined by FSI by conducting a pilot study in the past. The optimum plot size for Block and Linear strata is 0.1 ha and 10 m ×125 m strip, respectively. In case of scattered stratum, **as the new design is grid based, instead of district as being used earlier, the scattered plots will be identified as hilly or non-hilly on the basis of altitude of a particular plot and same will be mentioned against each plot**. The optimum size of sample plot has been fixed as 3.0 ha for non-hilly area and 0.5 ha for hilly area.

Sample points are randomly generated within each grid for selected stratum and the data on pre-decided variables like dbh, crown diameter, species name and category of plantation, etc. are collected on designed formats. The complete enumeration of all the trees of **5 cm and above dbh** will be carried out in the prescribed formats. Data processing will be carried out using data processing module developed for this purpose by FSI. **The list of sample plots under different stratum should not be interchanged with forest inventory grid in any circumstances. In case, the sample plots provided by headquarters fall in forest area, the same must be brought in the notice of headquarters. The change of the sample plots within the stratum is also to be made only after the consultation with headquarters.**

2.2.2 Sampling design for TOF Urban

The study area for this survey is considered as urban centres as defined by office of Registrar General of India. Sampling frame for urban areas has been prepared by National Sample Survey Organisation (NSSO) (under the Ministry of Statistics and Programme Implementation, Government of India). This organization conducts surveys by the name of 'Urban Frame Survey' (UFS). They divide all urban centres of a district in blocks called 'UFS blocks'. These blocks are having well defined boundaries, and are formed on the basis of 600-800 population or 120-160 households; they cover the whole area within the geographical boundary of a town including vacant lands.

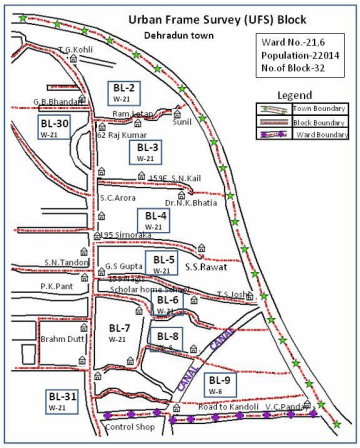

Fig.3: UFS Block

To identify the urban grids from the frame of the 5 km x 5km grids excluding grids marked for forest inventory, the list of urban towns and cities as per Census 2011 has been used. The centroid of all such towns/cities has been determined with the help of BHUVAN and GOOGLE earth. The area of all such towns/cities is also known from the census data. Using area of urban towns/cities, a buffer area has been created around the centroid of all towns/cities. A random point has been laid out in the buffer area for urban inventory. The list of urban grids along with latitudes and longitudes to be inventoried in a particular year will be given to zonal offices for field work. The zonal offices will identify the UFS block corresponding to selected sample point from NSSO. For this purpose, they may take toposheets or screen prints of Google/Bhuvan imagery of the selected sample point, which may be helpful in identification of UFS block. The inventory is to be done in the selected block and all trees above 5 cm diameter are to be recorded in the designated field forms.

2.3 Sampling unit

The description of sampling unit for block, linear and stratum of rural TOF and UFS block of urban TOF is given in the table 1.

Stratum	Plot size	Number of plots
Block	0.1 ha sq. plot	35
Linear	Linear strip of 10 mX125 m	50
Scattered(hilly)	0.5 ha sq plot	95
Scattered(non-hilly)	3.0 ha sq plot	50
UFS Block	No fixed size plot	20-50

2.4 Sample size and Precision

The optimum sample size has been determined at state level using past inventories data. The precision of the estimates at national level has been determined as ±5% with 95% confidence limit. The same at state level has been fixed as 10%. Once desired sample size is determined at state level, the requisite sample points will have identified and desired sample points will be laid out randomly.

2.5 Organisational Structure and Responsibilities

The National Forest Inventory (NFI) programme is implemented by FSI through Forest Inventory Division of headquarters and its four zonal offices. The Forest Inventory Division at FSI Headquarters, Dehradun is responsible for preparation of sample designs, generation of sample plots for inventory, designing of field forms, preparation of manual, development of data entry and data processing modules. The fieldwork is executed by four zonal offices located in different parts of the country at Shimla, Nagpur, Bangalore and Kolkata for organising and conducting field inventory of northern, central, southern and eastern parts of the country, respectively.

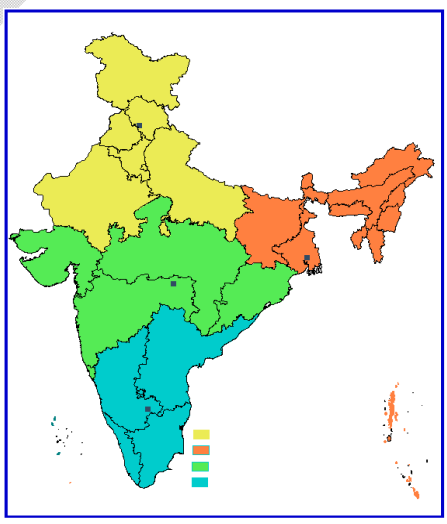

Fig.3: Jurisdiction under different Zones of FSI

The zonal offices are headed by Regional Directors and supported by Senior Deputy Directors/Deputy Directors, Assistant Directors, Senior Technical Assistants (STAs), Junior Technical Assistants (JTAs), Deputy Rangers, Field men and other supporting staff. The responsibilities of officers/officials at zonal offices are broadly given as follows:

Sl. No.	Designation	Nature of duties
1.	Regional Director	Administrative Head and overall in charge of field work
2.	Sr. Deputy Director/Deputy Director	Supervision and organisation of field work. Liasoning with local forest and district administration, supply of copies of manual, field forms to parties and explaining it to them, supply of stores items to staff, planning of base camps & field camps, control over field accounts, checking and compilation of data and forwarding data to Data Entry Section.
3.	Assistant Director/STA	Assist Dy.Director in execution of field work and checking of the field work
4.	Field Crew consisting of four persons. 1.Crew leader – JTA/Dy Ranger; 2.Assisted by – One Dy Ranger/Field man/FTA; 3.One FTA/Skilled person; and 4.One unskilled person. The composition of the field crew may be changed by the concern Regional Director as per field requirement and availability of manpower.	1) Study the manual 2) Laying of the sample plot, 3) collection of data from sample plots for field inventory as per the instructions contained in the field manual 4) Maintenance of account and cash book of field work 5) Checking and supply of data for submission to the Zonal Headquarters. 6) Safe custody of maps / albums and equipment
5.	Sr./Jr. Draftsman	Marking sample plots and supply of maps to field parties

The assignment of duties as mentioned above may not be strictly followed and it is left to the discretion of the Regional Director/Deputy Director to change duties of various staff depending on the availability of staff and field conditions

The list of selected sample points (latitude and longitude of centre of plot) for forest inventory will be sent by FSI headquarters. The field works will be executed by the zonal offices of FSI. **The sample points provided by the headquarters under forest inventory should not be changed to TOF (rural) or visa versa at any circumstances. If the field crew find that the sample plot allotted for forest inventory is falling in any stratum of TOF or vice versa, the sample point may be discarded and should be brought in the knowledge of headquarters for any further action.**

2.6 General Preparation of Field Work

The Regional Office will distribute the work of inventory to the crews. Once the area to be inventoried is assigned to crews, the crew leaders should select their camping sites in such a manner that maximum number of sample plots can be covered from a camp in the minimum traverse of distance. They should ensure that the day-to-day programme is so chalked out that they are not required to make wasteful journeys. The crew leaders should ensure that their parties are fully equipped with stores, camp and survey equipment, rations, medicines, etc. before commencement of field work. It is also to be ensured that each party carries optimum required equipment and kit with them in field as well as in camps so that there is no problem of transport of voluminous luggage.

During the fieldwork, sometimes the field parties need to travel a long distance on foot specially in hilly areas. It is advisable that each crew should take necessary food items along with sufficient water. In addition, first aid box should also be taken by each crew during the field work.

The crew leader should keep good liaison with the local staff of the State Forest Departments. He/she should also see that the tent camps (if established) are properly, neatly and systematically arranged and the staff maintains decorum and proper discipline in the camps. The restricted maps, photographs and confidential documents in the camp should not be passed on or shown to any un-authorised person. Such documents should be kept in personal custody of crew leader. Loss or damage of any such map along with the place of loss should be reported immediately to the Regional Director of the Zone.

2.7. Equipment and Other Materials Required for Each Field Crew

The crew leader should ensure that before proceeding to the field works, all necessary papers, field forms, manual etc may be taken with them. An indicative list of the equipment is given in table 2.

Table 2: List of equipment

S.No.	Equipment and other materials	Number Required	Additional Comments
1.	Silva compass	1	
2.	GPS handset with extra batteries	1	-
3.	Hypsometer/ Haga altimeter for measuring tree height	1	
4.	30-50m (self-rolling) measuring metallic tape or rope/chain, marked at every 1-5 meters)	1	- Metric
5.	Steel scale (6 and 12 inch)	1 each	
6.	Digital Camera + spare memory card + extra batteries + charger	1	

S.No.	Equipment and other materials	Number Required	Additional Comments
7.	Bark thickness gauge	1	
8.	Coloured flagging tape	Several rolls	Used for marking
9.	Waterproof Bags	2	To protect equipment against water/rain
10.	Callipers	1	Metric
11.	Weighing Machine	1	Digital
12.	Axe	1	
13.	Pathal/Khukhri	1	
14.	Plastic bags	2	For soil samples & forest floor
15.	Topographic maps and field maps	As necessary	
16.	Field forms	As necessary	
17.	Field manual	As necessary	
18.	Note books	As necessary	
19.	Pens & markers	As necessary	
20.	Hand calculator	1	
21.	Camping equipment & cooking utensils	As necessary	
22.	Food items	As necessary	

2.8 Preparation of Field Forms

The crew leaders must ensure that adequate number of field forms (in case data recorder is not available) are carried in field and each member has understood the field manual properly to have a clear understanding of the works to be carried out in the field. All doubts regarding field work should be fully cleared before proceeding for the field.

2.9 Preparation of Field Maps and GPS

Only the latest published topographic maps of 1:50,000 scale should be used. However, if the maps are not available on this scale, alternative maps like grey prints, or bromide prints or even 1″ = 1 mile scale maps can be used during survey. A Due precaution has to be taken that no area is left un-surveyed for non-availability of maps. The maps can be temporarily borrowed, if required, from the local Forest Department also, if these are not available with any other source.

It is pertinent to mention that the basic 5 km x 5 km grid layer has been borrowed from NRSC, which is made using **Albers Projection and WGS 1984 datum. But the list of sample points which is sent from HQ is under degree minutes second (positioning format) and appropriate Projection and Datum should be used and GPS may accordingly be set. However, if there is any change in Projection & Datum as indicated by headquarter is from time to time, then appropriate change in setting of GPS may be incorporated.** The hand held GPS units should be checked and ensured that batteries are new and instrument is working properly. Necessary training for using GPS should also be given to crew members. The latitudes and longitudes of sample plots should be feed in GPS to navigate to the sample plots.

2.10 How to Reach the Sample Plot

Handheld GPS should be used to approach the plot centre. The list of sample plots, which are to be tackled by the field crew, are available with them in advance. The crew leader should feed the list of inventory points to his GPS and should use “go to” button to locate the nearest available sample points. Having decided the plot location and grid number to be surveyed, the Crew Leader should find a nearest convenient route so that they can reach the plot with minimum traverse by vehicle or foot.

2.11 Preparation of field work

The general preparedness, preparation of field forms, field maps, GPS and how to reach the sample points are the same as in the case of forest inventory and have been described earlier.

After reaching the centre of sample plot with the help of hand held GPS, the next job would be to lay out the plot of given size. It is to be kept in mind that plot centre of block, linear and scattered stratum have been arrived at after classifying the remotely sensed data (LISS –IV Mx), it may actually fall 40-50 m away from the actual point on the ground. If the desired stratum is not located exactly by using GPS, then the same stratum may be located within the above-mentioned limit and plot of desired size may be laid out. The complete plot should be within indicated stratum.

NOTE: - ***Having reached the sample plot for block stratum if it comes to notice that plot centre is falling within recorded forest area and the boundary of recorded forest area is at more than 300-meter, then instead of TOF–Block sample point it should be treated as forest inventory sample point. Accordingly, forest inventory plot shoould be laid out at that sample point and it may be communicated to zonal office as well as FSI, Dehradun (HQ).***

2.12 Layout of plots in the field

2.12.1 Lay out of plot in block stratum

After reaching the plot centre fix the NE at 45^0, SE at 135^0, SW at 225^0 & NW at 315^0 corners of the plot by measuring 22.36 m. horizontal distance (i.e. half of the diagonal) by steel tape in all four directions. These four corners should be marked by thin poles or bamboos of 5 cm dia. and 1.5 meter in height. A red colour cloth may be tied at the top end of these corner posts for getting clear visibility from different spots in the plot. Check the dimensions of the plot i.e. all sides should measure 31.62 m horizontal distance.

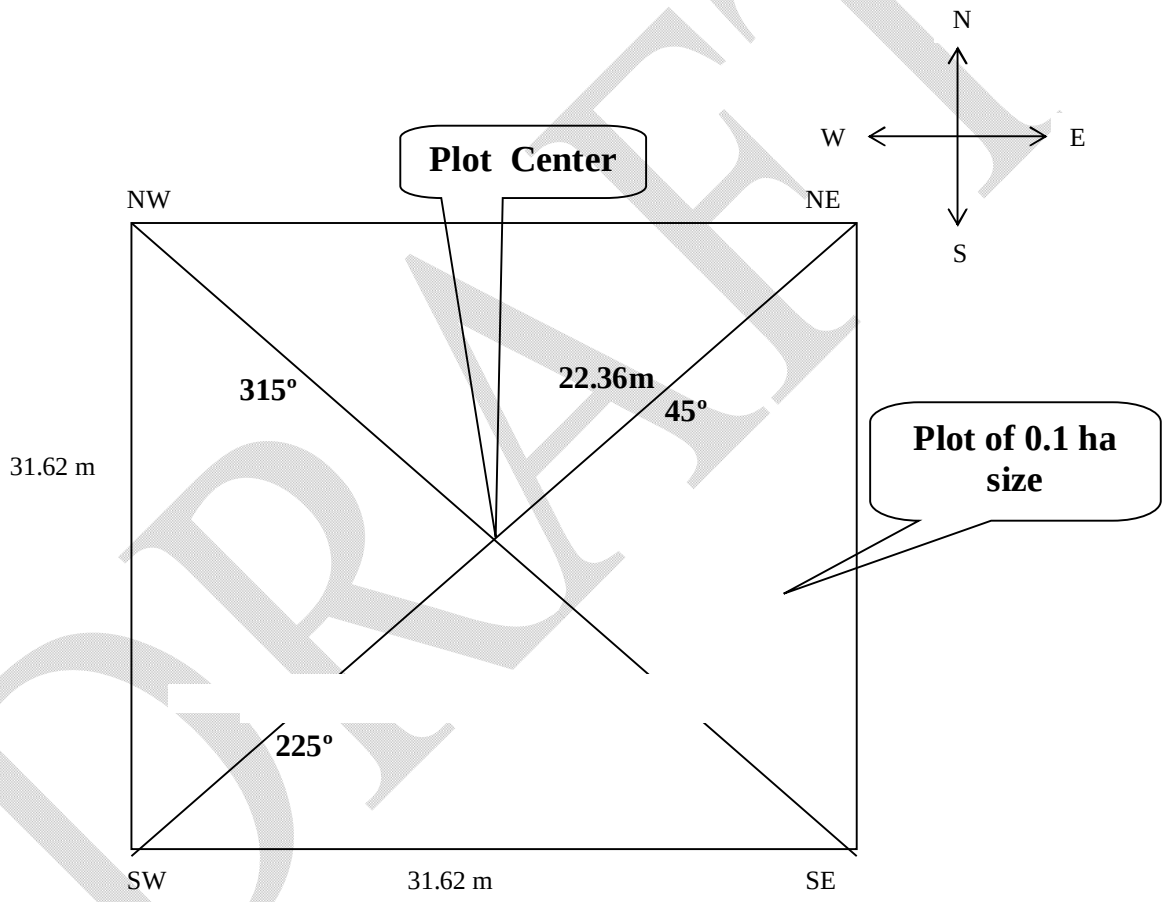

Figure 5

2.12.2 Layout of the plot in linear stratum

After reaching the centre of the plot at given lat. & long. as per sample list, the plot centre is to be fixed keeping 62.5 m on both sides. Accordingly, plot along the linear strip is to be laid out and width of 10 m will be taken with the help of chain/measuring

tape from the starting canopy of the strip of trees. If any side is less than 62.5 m then plot centre is to be adjusted in such a manner that each side of the adjusted plot is 62.5 m respectively, as shown in the figure below. The actual lat. & long. of the midpoint of the length (adjusted plot centre) of laid out sample plot recorded in the TOFR-2 at appropriate place.

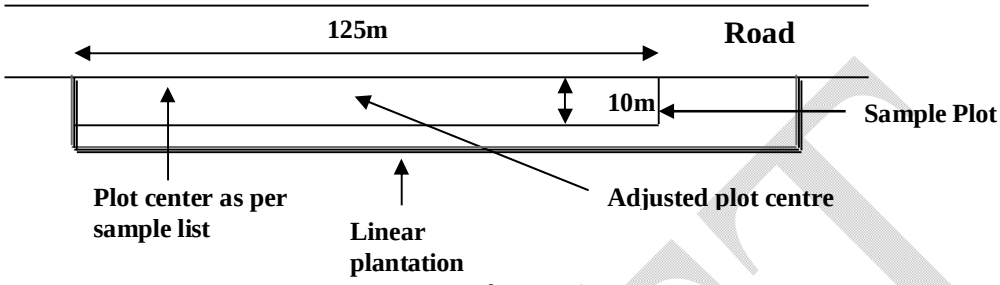

Figure 6

2.12.3 Layout of the plot in scattered stratum

<u>Grids having altitude less than 500 m</u>: A square plot of 3.0 ha will be laid out in scattered stratum. For this, after reaching the plot centre with the help of lat. & long., a square plot of 3.0 ha will be laid out. After fixing the plot centre, fix the NE at 45^0, SE at 135^0, SW at 225^0 and NW at 315^0 corners of the plot by measuring 122.47 m horizontal distance, i.e. half of the diagonal by steel tape in all four directions. These four corners should be marked by thin poles or bamboos of 5 cm dia. and 1.5 m height. If possible, ranging rods can also be used as corner posts. A red colour cloth may be tied at the top end of these corner posts for getting clear visibility from different spots in the plot. **In case the 3.0 ha square plot includes part of block and/or linear stratum, then plot centre should be adjusted suitably to exclude the undesired stratum.**

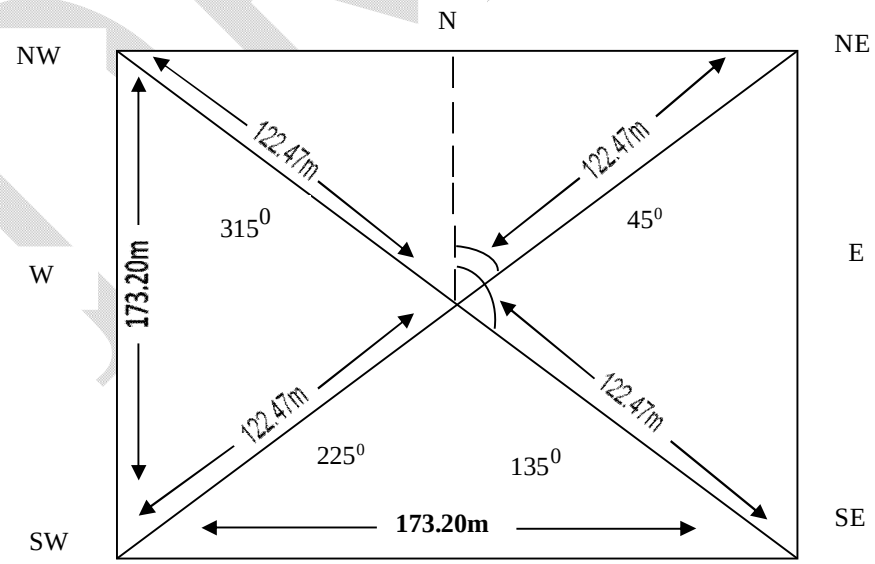

Figure 7

Check the dimensions of the plot i.e. all sides should measure 173.20 meter horizontal distance.

Grids having altitude more than 500 m: A square plot of 0.5 ha will be laid out in scattered stratum. For this, after reaching the plot center from the north, fix the NE at 45^0, SE at 135^0, SW at 225^0 and NW at 315^0 corner of the plot measure 50 meter horizontal distance (i.e. half the diagonal) by steel tape in all the four directions and plot will be laid out as it was done in case of block stratum.

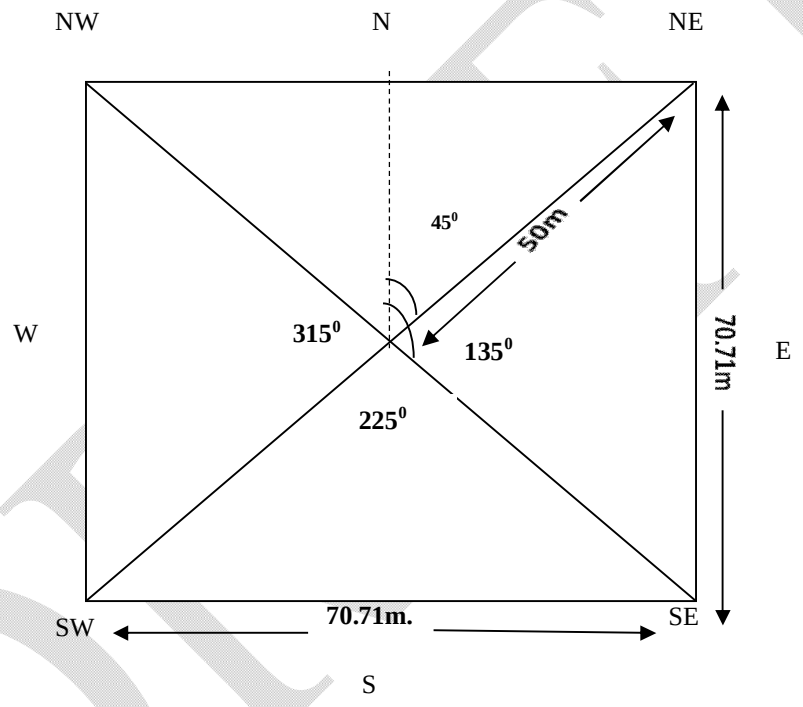

Figure 8

Check the dimension of the plot i.e. all sides of the plot should measure 70.71 meter horizontal distance.

For hilly and non-hilly plots (as the new design is grid based), the plots will be identified as hilly and non-hilly on the basis of altitude of a particular plot and same will be provided by the HQ to zonal offices.

2.12.4 Laying out of plot for TOF Urban Inventory

After reaching the sample block, the Crew Leader should identify the boundaries of the block given in the UFS map. For this purpose, maps and local authority should be

consulted. The crew leader should ensure that it is correctly identified. The Crew Leader shall collect the data, and shall be personally responsible for the same. He shall also assign duties to other crew members. The duties to the members of the team are not specified. They are to be decided by the Crew Leader considering the efficiency of every member of the crew.

To begin with the collection of data, it is necessary to select the starting point in the north-west corner of the block. This reference point should be a prominent permanent feature of the block. The details of location of starting/reference point and its description should be recorded in the "UFS BLOCK APPROACH FORM (TOFU-1)".

After fixing the starting point, the enumeration work begins. Enumeration of trees will commence from North-West corner of the block and will proceed in clockwise direction (i.e. north to east). The enumerated trees should be suitably marked to avoid duplication/omission of trees. Diameter at breast height (dbh) will be measured for all trees having diameter ≥5 cm with the help of the calliper, keeping the head of the calliper towards the starting point/reference point. Urban people are sceptical about providing information about number of trees in their homesteads. Therefore, it is necessary that the objectives of this exercise be thoroughly explained to them. During the survey, it may happen that the house owner is not available or house is locked and field party does not have access to enumerate trees. In such cases, the required information about number of trees and species are to be noted by enquiry from neighbours or from local/ knowledgeable person.

2.13 Data Collection

After laying out the plot, the enumeration work will be started. **Enumeration of trees will commence from North-West corner of the plot and will proceed in clock-wise direction (i.e. north to east).** The enumerated trees should be suitably marked to avoid duplication/omission of trees. Diameter at breast height (dbh) will be measured for all trees having diameter ≥ 5 cm with the help of caliper, keeping axis of the caliper towards the plot center.

After laying out of the plot and ensuring that it is correctly formed, the Crew Leader will collect the data. He will also assign duties to other crew members. The duties to the members of the crew are not specified. They are to be decided by the Crew Leader considering the efficiency of every member of the team.

The following precautions should be taken while collecting data:

1. The data should be collected accurately with the help of the members of Crew and should be recorded neatly in a good hand writing in the proper field forms by the crew leader, in the field.
2. The code numbers should be neatly and correctly recorded in legible manner.

3. Over-writing of codes should be avoided. Wherever any mistake is committed in writing, the entry should be cancelled and a corrected entry should be written, duly attested by Crew Leader.

   The digits should be written as 1, 2, 3, 4, 5, 6, 7, 8, 9, 0

4. Filling of Forms in Hindi, Urdu or regional languages should not be adopted without approval from the Head of the Office.

5. The data of TOF Rural will be collected and recorded in the following field forms. The Crew Leaders should see that adequate number of blank forms is carried in the field.

   1. TOFR –1 Plot Approach Form
   2. TOFR – 2 Plot Enumeration Form

6. The data of TOF Rural will be collected and recorded in the following field forms. The Crew Leaders should see that adequate number of blank forms are carried in the field.

   1. UFS Block Approach Form (TOFU –1)
   2. UFS Block Trees Enumeration Form (TOFU –2)

7. Detailed instructions for filling up of these forms are given in Chapter-V 3 and 4.

8. If complete data of a plot does not get accommodated in one sheet a second sheet as a continuation sheet would be used and the additional sheet would be carefully tagged with the main form after filling all columns and clearly writing words ‘continuation sheet’ on the second page and onwards.

9. Before leaving the plot, ensure that no instruments or stores are left behind.

10. Ensure that all members who have assisted in recording the information sign and write their names on the form.

11. Please ensure that all information is recorded/written and measured in field itself and nothing is taken to camp for compliance. Once a plot is left, it should be presumed that entire work of recording, filling forms, muster rolls etc. is complete in all respects.

2.14 Quality Assurance

The role of the quality assurance is to ensure that all resource inventory data are collected scientifically and accurately as per the instruction given in the manual. Further the performance of individual crew members will be checked. It also helpful in revealing inadequacies in the instructions and in the training programme. For checking of the field data, checking crews headed by Dy. Director/ Asstt. Director/ STA are formed in every zone for 10% checking of fieldwork of each crew to maintain and improve the quality of field data collection.

2.15 Personal conduct and Safety

Field crew members, as representative of the FSI, are expected to at courteously and diplomatically in all their contacts with public and other agencies. Field crews are expected to project their professional image. Field staff working in the field are subject to many safety hazard. These can be minimized by considering the following.

1. Wear protective clothing provided: long sleeves shirts, hats, long pants and boots can protect from cuts abrasions and biting insects.
2. Every crew should have a first aid kit with essential basic medicines.
3. Each crew must have adequate water and eatables.

For forest inventory local forest staff should be consulted before going for the field work.

Chapter-Three

TOF Rural Inventory: Instructions for recording data in different field forms

3.1 Plot Approach Form (TOFR-1)

This form will give details, such as mode of travel upto the reference point and conspicuous features observed during the journey on vehicles. This form will also indicate the starting time from camp and arrival at the reference point, time of arrival at the plot(s), time of leaving the plot(s) and time of returning to camp. All timings will be written as 07.30 hrs for 7.30 A.M. (4.30 P.M. will be written as 16.30 hrs).

The Crew Leader must fill up the proper identification of the plot (like State, District etc.) by using correct codes from the manual against each item. The distances shall be recorded in meters as specified against the item. Descriptive information is to be given in the space provided for the item. Extra sheets may be used (wherever the given space is not sufficient) with proper identification on the sheet.

The different works done by the individual members of crew should also be indicated against the items in the Plot Approach Form.

The Plot Approach Forms are to be kept in the Zonal Office only as a record and will be used as and when required.

While filling this form the Crew Leaders should keep in mind that all information in this form is recorded in such a manner that it will help in relocating the plot during checking.

S. No.	Item	Description/Definitions
1.	Job No. (Col.1(3))	Three-digit code will be filled in by Data Entry Section (DES) of respective zone for record keeping
2.	Survey Code (Col.2(1))	The survey code for TOF Rural inventory will be recorded as '2'
3.	Form Code (Col.3(1))	Record one-digit code 1 for TOFR-1
4.	FSI Zone (Col.4(1))	Record one-digit code as given in Annexure-II
5.	Phy. Zone (Col.5(2))	Record two-digit code (**Need not to be filled)**
6.	State Code (Col. 6(2))	Record two-digit district code as given in Annexure II.
7.	District Code (Col.7(2))	Record wo-digit district code as given in Annexure III.
8.	Stratum Code (Col.8(1))	Record stratum code as under:

<table>
<tr><th>S. No.</th><th>Item</th><th>Description/Definitions</th></tr>
<tr><td></td><td></td><td><table><tr><th>Code</th><th>Description</th></tr><tr><td>1</td><td>Block</td></tr><tr><td>2</td><td>Linear</td></tr><tr><td>3</td><td>Scattered</td></tr></table></td></tr>
<tr><td>9.</td><td>Grid Code (Col.9(6))</td><td>Record six digit code as per the list given by headquarters.</td></tr>
<tr><td>10.</td><td>Mapsheet Number. (Col.10(6))</td><td>Record six-digit code as given in Annexure IV.</td></tr>
<tr><td>11.</td><td>Latitude (Col. 11(8))</td><td>Record the latitude as per the list given by headquarters.</td></tr>
<tr><td>12.</td><td>Longitude (Col.12(8))</td><td>Record the longitude as per the list given by headquarters.</td></tr>
<tr><td>13.</td><td>Plot Hilly or Non Hilly (Col.13(1))</td><td>Record whether plot hilly or non-hilly as per list supplied by the HQ. The code is given below:<table><tr><th>Code</th><th>Description</th></tr><tr><td>1</td><td>Hilly</td></tr><tr><td>2</td><td>Non Hilly</td></tr></table></td></tr>
<tr><td>14.</td><td>Name of the Camp/District</td><td>Self explanatory</td></tr>
<tr><td>15.</td><td>Time (hrs.) at which left the camp/time (hrs.) at which move to the next plot</td><td>Record time in hours</td></tr>
<tr><td>16.</td><td>Distance covered by vehicle (km)</td><td>Self explanatory</td></tr>
<tr><td>17.</td><td>Time taken in journey by vehicle</td><td>Record time in hours</td></tr>
<tr><td>18.</td><td>Time at which started on foot to the plot centre</td><td>Record time in hours</td></tr>
<tr><td>19.</td><td>Distance covered on foot upto plot centre.</td><td>Record distance in km upto two decimal place.</td></tr>
<tr><td>20.</td><td>Time of arrival at the Plot</td><td>Record time in hours</td></tr>
<tr><td>21.</td><td>Plot destination mark (Village Name)</td><td>Record name of village or any other permanent feature where the plot falls</td></tr>
<tr><td>22.</td><td>Time of departure from the Plot</td><td>Record time in hours</td></tr>
<tr><td>23.</td><td>Time at which returned to camp</td><td>Record time in hours</td></tr>
<tr><td>24.</td><td>Navigation done by</td><td>Record name of the person who has carried out this work.</td></tr>
<tr><td>25.</td><td>Plot laid out by</td><td>Record name of the person who has carried out this work.</td></tr>
<tr><td>26.</td><td>Enumeration done by</td><td>Record name of the person who has carried out this work.</td></tr>
</table>

S. No.	Item	Description/Definitions
27.	Remarks	Record remark, if any, upto 50 words

3.2 TOFR –2: Plot Enumeration Form Rural

In this form, data of trees and bamboo clumps will be recorded. **Trees having utility less than 70 % are not to be enumerated.**

Plot Enumeration Form for each plot will be maintained separately. If a plot contains a large number of trees/bamboo clumps wherein all the data cannot be accommodated in one single form sheet, then additional form sheets in continuation may be used and in that case the total of all trees/bamboo clumps in the plot will be given in each page.

Trees, the stems of which touch the **North and West border** lines of the plot (called border-line trees) will be treated as '**in trees'** and enumerated. However, trees the stems of which touch the **East and South border** lines of the plot will be treated as '**out trees'** and will not be enumerated. 'In' and 'out' bamboo would be similarly decided and treated.

Enumeration of trees/bamboo will commence from the NW corner in North quadrant of the plot and will proceed in clockwise direction. All bamboo clumps occurring in a plot will be serially numbered by a jet-writer pen and a separate series of numbers will be used for bamboo species. Similarly, trees will be numbered separately and simultaneously.

The coding instructions for filling up of the Plot Enumeration Form Rural are as under:

S. No.	Item	Description/Definitions
1.	Job No. (Col.1(3))	Three-digit code will be filled in by Data Entry Section (DES) of respective zone for record keeping.
2.	Survey Code (Col.2(1))	Record survey code as "2".
3.	Form Code (Col.3(1))	Record one-digit form code as "2".
4.	FSI Zone (Col.4(1))	Record one-digit code in as given in Annexure-II.
5.	Phy. Zone (Col.5(2)	Record two digit codes. **(No need to be filled)**
6.	State Code (Col. 6(2))	Record two-digit States code as given in Annexure II.
7.	District Code (Col.7(2))	Record two-digit district code as given in Annexure III.
8.	Stratum Code (Col.8(1))	Record one digit stratum code as under: **Code** | **Stratum**

<table>
<tr><th>S. No.</th><th>Item</th><th>Description/Definitions</th></tr>
<tr><td></td><td></td><td><table>
<tr><td>1</td><td>Block</td></tr>
<tr><td>2</td><td>Linear</td></tr>
<tr><td>3</td><td>Scattered</td></tr>
</table></td></tr>
<tr><td>9.</td><td>Grid Code. (Col.9(6))</td><td>Record six digit grid code as given by the headquarters.</td></tr>
<tr><td>10.</td><td>Plot Status (Col. 10(1))</td><td>Record plot status in one digit as under:<table>
<tr><th>Code</th><th>Status</th></tr>
<tr><td>1</td><td>Trees available</td></tr>
<tr><td>2</td><td>Plot falls in urban area/habitation</td></tr>
<tr><td>3</td><td>Marshy/water logged area with grasses and/or bushes</td></tr>
<tr><td>4</td><td>Young plantation/nurseries and not having trees of 5 cm and above dbh</td></tr>
<tr><td>5</td><td>Agriculture land</td></tr>
<tr><td>6</td><td>Agriculture land having plantation in last 5 years</td></tr>
<tr><td>7</td><td>Others (specify)</td></tr>
<tr><td>8</td><td>Plot falls in recorded forest area</td></tr>
</table></td></tr>
<tr><td></td><td colspan="2">Note: If plot status code is 2 or 8, enumeration will not be done in the plot</td></tr>
<tr><td>11.</td><td>Plot Ownership (Col.11(1))</td><td>Record plot ownership in one digit as under:<table>
<tr><th>Code</th><th>Status</th></tr>
<tr><td>1</td><td>Private individual</td></tr>
<tr><td>2</td><td>Private others</td></tr>
<tr><td>3</td><td>Forest Department</td></tr>
<tr><td>4</td><td>Other Government Department</td></tr>
<tr><td>5</td><td>Panchayat Land</td></tr>
<tr><td>6</td><td>Institutions (Govt.)</td></tr>
<tr><td>7</td><td>Others (specify)</td></tr>
</table></td></tr>
<tr><td>12.</td><td>Latitude (Col.12(8))</td><td>Record eight digits, latitude of the sample plot as per the list provided by the headquarters in degrees, minutes and seconds upto two decimal point.</td></tr>
<tr><td>13.</td><td>Longitude (Col.13(8))</td><td>Record eight digits, longitude of the sample plot as per the list provided by the headquarters in degrees, minutes and seconds upto two decimal point.</td></tr>
<tr><td>14.</td><td>Category of plot (Col.14(1))</td><td>Record category of plot in one digit as under:<table>
<tr><th>Code</th><th>Status</th></tr>
<tr><td>1</td><td>Hilly, irrigated and within 5 km of forests</td></tr>
<tr><td>2</td><td>Plain, irrigated and within 5 km of forests</td></tr>
<tr><td>3</td><td>Hilly, irrigated and >5 km from forests</td></tr>
<tr><td>4</td><td>Plain, irrigated and >5 km from forest</td></tr>
<tr><td>5</td><td>Hilly, unirrigated and within 5 km of forests</td></tr>
</table></td></tr>
</table>

S. No.	Item	Description/Definitions
		6 Plain, unirrigated and within 5 km of forests 7 Hilly, unirrigated and >5 km from forests 8 Plain, unirrigated and >5 km from forests
15.	Sl.No. & Species Name	Record local or Botanical name of the species.
16.	Species code (Col.15(4))	Record four digit code as in Annexure-VII
17.	dbh (cm) (Col.16(3))	Record the diameter in cm at breast height over bark in three digits. The diameter of all the trees having dia. ≥ 5 cm and above falling in the plot will be measured at a height of 1.37 m from ground level (i.e. at breast height) measuring on up hill side of the tree and will be recorded to the nearest centimeter. The axis of the callipers (i.e. the long arm of the callipers) will always be kept pointed towards the centre of the plot while taking diameter measurement of trees. If there is flare at the breast height of a tree, in that case, the diameter measurement would be taken immediately above or below the flare whichever is nearer to breast height. In case of butteressed and large sized trees diameter may be measured by tape or taking girth and converting it to diameter by multiplying with 7/22 or 0.318 factor. In case there is forking of a tree below its breast height, diameter of each forked stem (provided diameter of each forked stem >5 cm) will be measured at breast height (above forking) and recorded separately, as if for two trees. Dead trees, if not rotten and provided 70% of their wood is utilizable, will also be enumerated. The diameter of a bamboo clump will be measured at its base (at a height of 30 cm) with the help of a tape.
18.	No. of culms (Col. 17(3))	In case of bamboo species (in Item 16 above) record number of culms in that clump. In case of non-clump forming bamboo 1/8th area of north-west quadrants of the plot will be enumerated.
19.	Crown width (Col.18(3))	Record crown width of the **tree and spread of bamboo clumps** in meters upto one decimal. **The measuring tape will always be aligned to the center of the plot while taking crown width of tree.**

<table>
<tr><th>S. No.</th><th>Item</th><th>Description/Definitions</th></tr>
<tr><td>20.</td><td>Category of trees/ bamboo (Col.19(11))</td><td>Record category of trees/ bamboo coded as under:
<table>
<tr><th>Code</th><th>Status</th></tr>
<tr><td>1</td><td>Farm forestry: Trees along the farm bunds and in small patches up to 0.1 ha in area</td></tr>
<tr><td>2</td><td>Village Woodlots: Naturally growing trees/planted trees on community land etc</td></tr>
<tr><td>3</td><td>Block plantations: Patches covering an area of more than 0.1 ha and not falling in any of the above</td></tr>
<tr><td>4</td><td>Road side plantations: Planted/natural trees growing along roadside.</td></tr>
<tr><td>5</td><td>Ponds side plantation: Planted/natural trees growing around water ponds.</td></tr>
<tr><td>6</td><td>Railway lines side plantation: Planted/natural trees growing along railway lines</td></tr>
<tr><td>7</td><td>Canals side plantation: Planted/natural trees growing along canal side.</td></tr>
<tr><td>8</td><td>Homestead: Trees appearing in the house premises and not covered in above first three categories</td></tr>
<tr><td>9</td><td>Others: Trees not falling in any of the above categories</td></tr>
</table></td></tr>
<tr><td>21.</td><td>Bamboo Quality Col.20(1))</td><td>Record bamboo quality as per the instructions given in PDF for forest inventory.</td></tr>
<tr><td>22.</td><td>Shifted Latitude (Col.21(8))</td><td>Record eight digits, actual latitude of the sample plot as per the reading of GPS in degrees, minutes and seconds upto two decimal point.</td></tr>
<tr><td>23.</td><td>Shifted Longitude (Col.22(8))</td><td>Record eight digits, actual longitude of the sample plot as per the reading of GPS in degrees, minutes and seconds upto two decimal point.</td></tr>
<tr><td>24</td><td>Status of Tree (Col 23(1)</td><td>Record the status of each enumerated standing tree whether it is alive or dead:
<table>
<tr><td>Code</td><td>Item</td></tr>
<tr><td>1</td><td>Tree is alive</td></tr>
<tr><td>2</td><td>Tree is dead</td></tr>
<tr><td>3</td><td>Not applicable</td></tr>
</table></td></tr>
</table>

<table>
<tr><th>S. No.</th><th>Item</th><th>Description/Definitions</th></tr>
<tr><td>25</td><td>Plot Type
(Col 25(1)</td><td>Record type of the plot in one digit
<table><tr><td>Code</td><td>Item</td></tr><tr><td>1</td><td>Hilly</td></tr><tr><td>2</td><td>Non Hilly</td></tr></table></td></tr>
</table>

Chapter-Four:

TOF Urban Inventory: Instructions for recording data in different field forms

4.1 UFS Block Approach Form (TOFU-1)

This form will give details such as mode of travel upto the reference point and conspicuous features observed during the journey by vehicle. This form will also indicate the starting time from camp and arrival time of at the reference point, time of arrival at the block(s), time of leaving the block(s) and time of returning to camp. All the timings will be written as 0730 hrs. For 7:30 A.M. (4.30 P.M. will be written as 1630 hrs).

The Crew Leader must fill up the proper identification of the block (like State, District etc.) by using correct codes from the manual against each item. All the timings shall be coded in four digits as explained above. The distances shall be coded in meters as specified against the item. Descriptive information is to be given in the space provided for the item. Extra sheets may be used (wherever the given space is not sufficient) with proper identification on the sheet.

The different works done by the individual members of Crew should also be indicated against the items in the UFS block Approach Form.

The Block Approach Forms are to be kept in the zonal office only as a record and will be used as and when required.

While filling this form the Crew Leaders should keep in mind that all information in this form is recorded in such a manner that it will help in relocating the block during checking or re-inventory.

Coding instructions for filling the form

S. No.	Item	Description/Definitions
1.	Job No. (Col.1(3))	Three-digit code will be filled in by Data Entry Section (DES) of respective zone for record keeping
2	Survey Code (Col.2(1))	Record survey code as “3”
3	Form code (Col.3(1))	Record one-digit form code as “1”
4	FSI Zone (Col.4(1))	Record one-digit code as given in Annexure-II
5	Phy. Zone (Col.5(2))	Record two-digit code (**No need to fill up this code**)

<table>
<tr><th>S. No.</th><th>Item</th><th>Description/Definitions</th></tr>
<tr><td>6</td><td>State code (Col.6(2))</td><td>Record two-digit States code as given in Annexure II.</td></tr>
<tr><td>7.</td><td>District code (Col.7(2))</td><td>Record two-digit district code as given in Annexure III.</td></tr>
<tr><td>8.</td><td>Town name</td><td>Record name of the town in this column.</td></tr>
<tr><td>9.</td><td>Town class code (Col.8(1))</td><td>Record town class code as under<table><tr><th>Code</th><th>Description</th></tr><tr><td>1</td><td>Towns having population of one lakh and</td></tr><tr><td>2</td><td>Towns having population between 50,00</td></tr><tr><td>3</td><td>Towns having population between 20,00</td></tr><tr><td>4</td><td>Towns having population between 10,00</td></tr><tr><td>5</td><td>Towns having population less than 10,0</td></tr></table></td></tr>
<tr><td>10.</td><td>IV Unit No. & UFS block No. (Col.9 & 10 (3) & (2))</td><td>Record in five digits. UFS block number along with Investigator unit (IV unit) as per sample list/map. The three digits represent IV unit number and two digits represent UFS block number.</td></tr>
<tr><td>11.</td><td>Mapsheet Number. (Col.11(6))</td><td>Record six-digit mapsheet code in Annexure-IV.</td></tr>
<tr><td>12.</td><td>Grid Code. (Col.12(6))</td><td>Record six digit grid code as headquarters.</td></tr>
<tr><td>13.</td><td>Name of the Camp/district</td><td>Self explanatory</td></tr>
<tr><td>14.</td><td>Time (hrs.) at which left the camp to grid(plot)/move to next grid(plot)</td><td>Record the time in hours</td></tr>
<tr><td>15.</td><td>Distance covered by vehicle (km)</td><td>Self explanatory</td></tr>
<tr><td>16.</td><td>Time taken for journey by vehicle</td><td>Record the time in hours</td></tr>
<tr><td>17.</td><td>Time of arrival at the UFS block</td><td>Record the time in hours</td></tr>
<tr><td>18.</td><td>Block destination mark (Name of the area)</td><td>Record name of area is written where the UFS block falls</td></tr>
<tr><td>19.</td><td>Time of departure from the UFS block</td><td>Record the time in hours</td></tr>
<tr><td>20.</td><td>Time at which returned to camp/ move to the next grid(plot)</td><td>Record the time in hours</td></tr>
<tr><td>21.</td><td>Conspicuous feature selected as the starting point for the survey</td><td>This starting point should be a prominent permanent feature of the block viz. temple, school, etc.</td></tr>
<tr><td>22.</td><td>Description of the starting point and approach to this</td><td>Record description of starting point and its approach.</td></tr>
</table>

S. No.	Item	Description/Definitions
	point	
23.	Verifications of the UFS block boundaries done by.	Record naeme of the person who has carried out this work.
24.	UFS block Tree enumeration done by	Record name of the person who has carried out this work.
25.	Area of UFS block measured by	Record name of the person who has carried out this work.
26.	Remarks	Record remark, if any, upto 50 words
27	Map of UFS attached	Tick Y/N

4.2 UFS Block Tree Enumeration Form (TOFU -2)

Instructions for filling the form

<table>
<tr><th>S. No.</th><th>Item</th><th>Description/Definitions</th></tr>
<tr><td>1.</td><td>Job No. (Col.1(3))</td><td>Three-digit code will be filled in by Data Entry Section (DES) of respective zone for record keeping</td></tr>
<tr><td>2</td><td>Survey Code (Col.2(1))</td><td>Record survey code as “3”</td></tr>
<tr><td>3</td><td>Form Code (Col.3(1))</td><td>Record one-digit form code as “2”</td></tr>
<tr><td>4</td><td>FSI Zone (Col.4(1))</td><td>Record one-digit FSI zone code as given in Annexure-II</td></tr>
<tr><td>5</td><td>Phy. Zone (Col.5(2))</td><td>Need not be filled up.</td></tr>
<tr><td>6</td><td>State code (Col.6(2))</td><td>Record two-digit States code as given in Annexure II.</td></tr>
<tr><td>7.</td><td>District code (Col.7(2))</td><td>Record two-digit district code as given in Annexure III.</td></tr>
<tr><td>8.</td><td>Town name</td><td>Record name of the town written in this column.</td></tr>
<tr><td>9.</td><td>Town code (Col.8(6))</td><td>Record six-digit town code as per the list prepared from Census Data 2011.</td></tr>
<tr><td>10.</td><td>Town class code (Col.9(1))</td><td>Record town class code as under
<table>
<tr><th>Code</th><th>Description</th></tr>
<tr><td>1</td><td>Towns having population of one lakh and above</td></tr>
<tr><td>2</td><td>Towns having population between 50,000 to 99,999</td></tr>
<tr><td>3</td><td>Towns having population between 20,000 to 49,999</td></tr>
<tr><td>4</td><td>Towns having population between 10,000 to 19,999</td></tr>
<tr><td>5</td><td>Towns having population less than 10,000</td></tr>
</table></td></tr>
<tr><td>11.</td><td>IV Unit No. & UFS Block No.(Col.10 & 11 (3) & (2))</td><td>Record in five digits. UFS Block number along with Investigator unit (IV unit) as per sample list/map. The three digits represent IV unit number and two digits represent UFS Block.</td></tr>
<tr><td>12.</td><td>UFS Block area (ha) (Col.12(3))</td><td>Record the area of selected UFS block taken with the help of GPS and polygons are to be send to the Head Quarter for further analysis.
The geographical area of the sample block nearest to hectare may be given with the help of GPS. In absence of GPS it should be given after measuring length and width of the block.</td></tr>
<tr><td>13.</td><td>Category of UFS Block (Col.13(1))</td><td>Record UFS block category coded as under:
<table>
<tr><th>Code</th><th>Description</th></tr>
<tr><td>1</td><td>Slum area: A slum area refers to an agglomeration of densely inhabited, poorly built and/or dilapidated structures, predominantly</td></tr>
</table></td></tr>
</table>

S. No.	Item	Description/Definitions	
			made of kutcha or semi-kutcha building materials, often irregularly or asymmetrically constructed in unhygienic surroundings on a patch of land. The principal features of a slum area, in other words, will include (i) overcrowding; (ii) haphazard growth of structures; (iii) improper roads and narrow lanes with poor accessibility; (iv) inadequate power, sanitation and drainage facilities; (v) improper ventilation and inadequate area for living; (vi) inadequate arrangements for water supply; and, (vii) general unhygienic conditions. Sometimes, a particular area is declared to be a slum area by the appropriate authority.
		2	**Residential area**: The area used predominantly for residential purposes will be termed as residential area.
		3	**Bazaar area**: The area consisting primarily of markets/shops will be termed as Bazaar area.
		4	**Restricted/prohibited area**: Area occupied by Army, Air Force, Navy & Police Forces etc., is declared as restricted/prohibited area by the Government. These areas consist of both population and other areas. These areas under the control of military or local police have restrictions for public from the point of view of internal security. (Urban Frame Survey is to be carried out in such Restricted Areas also by taking necessary permission from the Competent Authority)
		5	**Factory/Industrial area**: The area where factories are mostly located in a town will be treated as a factory area.
		6	**Other Residential area**: Whenever it is not possible to distinguish an area into falling in any one of the above mentioned types (it may happen that the area is a combination of two or more types of areas mentioned above), it may be treated as 'Other Residential Area'
14.	Latitude (Col.14(8))	Record eight digits, latitude of the sample plot in degrees, minutes and seconds upto two decimal point.	
15.	Longitude (Col.15(8))	Record eight digits, longitude of the sample plot in degrees, minutes and seconds upto two decimal point.	

<table>
<tr><th>S. No.</th><th>Item</th><th>Description/Definitions</th></tr>
<tr><td>16.</td><td>Mapsheet No. (Col.16(6))</td><td>Record six-digit mapsheet code as given in Annexure-IV.</td></tr>
<tr><td>17.</td><td>Grid Code. (Col.17(6))</td><td>Record six digit grid code as given by headquarters.</td></tr>
<tr><td>18.</td><td>Sl. No and Species Name(Col. 18 & 19)</td><td>Record sl. No. and local/ botanical name of the species.</td></tr>
<tr><td>19.</td><td>Species Code (Col. 20(4))</td><td>Record four digit code as given in Annexure-VII</td></tr>
<tr><td>20.</td><td>DBH (cm) (Col.21(3))</td><td>Record the diameter of all trees having dia. ≥ 5 cm and above measured at breast height over bark and to the nearest centimetre. If there is flare at the breast height of a tree, the diameter measurement will be taken immediately above or below the flare. In case of buttressed and large sized trees, taking girth and converting it to diameter by multiplying with 7/22 or 0.318 factors may be carried out.

In case there is forking of a tree below its breast height, diameter of each forked stem will be measured at breast height (above forking) and recorded separately, as if for two or more trees.

The axis of the calliper (i.e. the long arm of the calliper) will always be kept pointed to the starting point of the block while taking dbh of tree.
Bamboo data should also be collected in Urban area. Only bamboo species name and clump dia. will be taken.</td></tr>
<tr><td>21.</td><td>Crown width (Col.22(3))</td><td>Record crown width of the tree and spread of bamboo clump in meter up to one decimal. The measuring tape will always be aligned to the starting point of the block while taking crown width of tree.</td></tr>
<tr><td>22.</td><td>Category of plantation (trees/bamboo) (Col. 23(1))</td><td>Record categories of planation as under:
<table>
<tr><th>Code</th><th>Category of plantation (trees/bamboo)</th></tr>
<tr><td>1</td><td>Farm forestry: Trees along the farm bunds and in small patches up to 0.1 ha in area.</td></tr>
<tr><td>2</td><td>Woodlots: Naturally growing trees/planted trees on community land such as parks/gardens/ institutional plantation etc.</td></tr>
<tr><td>3</td><td>Block plantations: Patches covering an area</td></tr>
</table>
</td></tr>
</table>

S. No.	Item	Description/Definitions
		of more than 0.1 ha and not falling in any of the above.
		4 **Road side plantations:** Planted/natural trees growing along roadside.
		5 **Ponds side plantation:** Planted/natural trees growing along water ponds.
		6 **Railway lines side plantation:** Planted/ natural trees growing along the railway lines.
		7 **Canals side plantation:**Planted/**natural** trees growing along the canals.
		8 **Homestead:** Trees appearing in the house premises and not covered in above first three categories.
		9 **Others:** Trees not falling in any of the above categories.
23.	Area (ha.)(Col.24(4))	Record area of block plantations in four digits upto two decimal place. (patches only).
24.	Bamboo Quality (Col.25(1))	Record bamboo quality as per the instructions given in PDF for forest inventory.
25.	Shifted Latitude (Col.26(8))	Record eight digits, actual latitude of the sample plot as per the reading of GPS in degrees, minutes and seconds upto two decimal point.
26.	Shifted Longitude (Col.27(8))	Record eight digits, actual longitude of the sample plot as per the reading of GPS in degrees, minutes and seconds upto two decimal point.

ANNEXURES

ANNEXURE - I

Sloping distance of slopes corresponding to the horizontal distance

Distance in meters

Slope degree	1	2	3	4	5	6	7	8	9	10	20	30	40	50
0	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
1	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.01	40.01	50.01
2	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.01	10.01	20.01	30.02	40.02	50.06
3	1.00	2.00	3.00	4.01	5.01	6.01	7.01	8.01	9.01	10.01	20.03	30.04	40.06	50.07
4	1.00	2.00	3.01	4.02	5.01	6.01	7.01	8.02	9.02	10.02	20.04	30.05	40.10	50.12
5	1.00	2.01	3.01	4.02	5.02	6.02	7.03	8.03	9.03	10.04	20.08	30.11	40.15	50.19
6	1.01	2.01	3.02	4.02	5.03	6.03	7.04	8.04	9.05	10.06	20.11	30.12	40.22	50.28
7	1.01	2.02	3.02	4.04	5.04	6.05	7.05	8.06	9.07	10.08	20.15	30.23	40.30	50.38
8	1.01	2.02	3.03	4.04	5.05	6.06	7.07	8.08	9.09	10.10	20.20	30.29	40.40	50.50
9	1.01	2.02	3.04	4.05	5.06	6.07	7.09	8.10	9.11	10.12	20.25	30.37	40.50	50.62
10	1.02	2.03	3.05	4.06	5.08	6.09	7.11	8.12	9.14	10.15	20.31	30.46	40.62	50.77
11	1.02	2.04	3.06	4.07	5.09	6.11	7.13	8.15	9.17	10.19	20.37	30.56	40.75	50.94
12	1.02	2.04	3.07	4.09	5.11	6.13	7.16	8.18	9.20	10.22	20.45	30.67	40.85	51.11
13	1.03	2.05	3.08	4.10	5.13	6.16	7.18	8.21	9.24	10.26	20.52	30.79	41.05	51.31
14	1.03	2.06	3.09	4.12	5.15	6.18	7.21	8.24	9.27	10.31	20.61	30.92	41.22	51.33
15	1.04	2.07	3.11	4.14	5.18	6.21	7.25	8.28	9.32	10.35	20.71	31.06	41.44	51.77
16	1.04	2.08	3.12	4.16	5.20	6.24	7.28	8.32	9.36	10.40	20.80	31.21	41.61	52.01
17	1.05	2.09	3.14	4.18	5.23	6.27	7.32	8.36	9.41	10.46	20.91	31.37	41.82	52.28
18	1.05	2.10	3.15	4.21	5.26	6.31	7.36	8.41	9.46	10.51	21.03	31.54	42.06	52.57
19	1.06	2.12	3.17	4.23	5.29	6.35	7.40	8.46	9.52	10.58	21.15	31.73	42.30	52.88
20	1.06	2.13	3..19	4.26	5.32	6.38	7.45	8.51	9.58	10.64	21.28	31.92	42.56	53.20

ANNEXURE - I

Continuation Sheet

Distance in meters

Slope degree	60	70	80	22.36	31.62	38.73	44.72	54.77	63.24
0	60.00	70.00	80.00	22.36	31.62	38.73	44.72	54.77	63.24
1	60.01	70.01	80.02	22.36	31.62	38.74	44.73	54.78	63.25
2	60.04	70.04	80.05	22.37	31.64	38.76	44.75	54.80	63.28
3	60.08	70.10	80.10	22.39	31.66	38.78	44.78	54.84	63.33
4	60.14	70.17	80.19	22.41	31.70	38.82	44.83	54.90	63.39
5	60.23	70.27	80.30	22.44	31.74	38.88	44.89	54.98	63.48
6	60.33	70.39	80.44	22.48	31.79	38.94	44.97	55.07	63.59
7	60.45	70.53	80.60	22.53	31.86	39.02	45.05	55.18	63.71
8	60.59	70.69	80.78	22.58	31.93	39.10	45.16	55.31	63.86
9	60.74	70.87	80.99	22.64	32.01	39.21	45.27	55.45	64.02
10	60.92	71.08	81.23	22.70	32.11	39.32	45.41	55.61	64.21
11	61.12	71.31	81.50	22.78	32.21	39.45	45.56	55.79	64.42
12	61.34	71.56	81.78	22.86	32.33	39.59	45.72	55.99	64.65
13	61.57	71.83	82.10	22.95	32.35	39.74	45.89	56.20	64.90
14	61.84	72.14	82.45	23.04	32.59	39.91	46.09	56.45	65.17
15	62.12	72.47	82.82	23.15	32.74	40.09	46.30	56.70	65.47
16	62.41	72.81	83.22	23.26	32.89	40.28	46.52	56.97	65.78
17	62.74	73.19	83.65	23.38	33.06	40.49	46.76	57.27	66.12
18	63.08	73.60	84.11	23.51	33.25	40.72	47.02	57.58	66.49
19	63.36	74.03	84.61	23.65	33.44	40.96	47.30	57.92	66.88
20	63.85	74.49	85.13	23.79	33.65	41.20	47.50	58.28	67.29

ANNEXURE - I

Continued

Slope degree	1	2	3	4	5	6	7	8	9	10	20	30	40	50
21	1.07	2.14	3.21	4.28	5.36	6.43	7.50	8.57	9.64	10.71	21.42	32.13	42.84	53.55
22	1.08	2.16	3.24	4.31	5.39	6.47	7.55	8.63	9.71	10.78	21.57	32.35	43.14	53.92
23	1.09	2.17	3.26	4.35	5.43	6.52	7.60	8.69	9.78	10.86	21.73	32.59	43.45	54.31
24	1.09	2.19	3.28	4.38	5.47	6.57	7.66	8.76	9.85	10.95	21.89	32.84	43.78	54.73
25	1.10	2.21	3.31	4.41	5.52	6.62	7.72	8.83	9.93	11.03	22.70	33.10	44.13	55.16
26	1.11	2.22	3.34	4.45	5.56	6.68	7.79	8.90	10.01	11.12	22.25	33.37	44.50	55.62
27	1.12	2.24	3.37	4.49	5.61	6.73	7.86	8.98	10.10	11.22	22.45	33.67	44.89	65.11
28	1.13	2.27	3.40	4.53	5.66	6.80	7.93	9.06	10.19	11.33	22.65	33.98	45.30	56.63
29	1.14	2.29	3.43	4.57	5.72	6.86	8.00	9.15	10.29	11.43	22.87	34.30	45.73	57.16
30	1.16	2.31	3.46	4.62	5.77	6.93	8.08	9.24	10.39	11.55	23.09	34.64	46.80	57.73
31	1.17	2.33	3.50	4.67	5.83	7.00	8.17	9.33	10.50	11.66	23.33	34.99	46.66	58.32
32	1.18	2.35	3.53	4.71	5.89	7.07	8.25	9.43	10.61	11.79	23.58	35.37	47.16	58.96
33	1.19	2.38	3.58	4.77	5.96	7.15	8.35	9.54	10.73	11.92	23.85	35.77	47.69	59.61
34	1.21	2.41	3.62	4.82	6.03	7.24	8.44	9.65	10.86	12.06	24.12	36.19	48.25	60.31
35	1.22	2.44	3.66	4.88	6.10	7.32	8.55	9.77	10.99	12.21	24.41	36.62	48.83	61.03
36	1.24	2.47	3.71	4.94	6.18	7.42	8.65	9.85	11.12	12.36	24.72	37.08	49.44	61.80
37	1.25	2.50	3.76	5.01	6.26	7.51	8.76	10.02	11.27	12.52	25.04	37.56	50.08	62.60
38	1.27	2.54	3.81	5.08	6.34	7.61	8.88	10.15	11.42	12.69	25.38	38.07	50.76	63.45
39	1.29	2.57	3.86	5.15	6.43	7.72	9.01	10.29	11.58	12.87	25.74	38.16	51.47	64.34
40	1.31	2.61	3.92	5.22	6.53	7.83	9.14	10.44	11.75	13.05	26.10	39.16	52.22	65.27
41	1.32	2.65	3.97	5.30	6.62	7.95	9.27	10.60	11.82	13.25	26.50	39.75	53.00	66.25
42	1.35	2.69	4.04	5.38	6.73	8.07	9.42	10.77	12.11	13.46	26.91	40.37	53.83	67.28
43	1.37	2.73	4.10	5.47	6.84	8.20	9.57	10.94	12.30	13.67	27.34	41.02	54.69	68.36
44	1.39	2.78	4.17	5.56	6.95	8.34	9.73	11.12	12.51	13.90	27.80	41.71	55.61	69.51
45	1.41	2.83	4.24	5.66	7.07	8.49	9.90	11.31	12.73	14.14	28.28	42.43	56.57	70.71

ANNEXURE - I

Continuation Sheet

Slope degree	60	70	80	22.36	31.62	38.73	44.72	54.77	63.24
21	64.27	74.98	85.69	23.95	33.87	41.48	47.90	58.66	67.74
22	64.71	75.49	86.28	24.12	34.10	41.77	48.23	59.07	68.20
23	65.18	76.04	86.90	24.29	34.35	42.07	48.58	59.50	68.70
24	65.58	76.62	87.57	24.48	34.61	42.39	48.95	59.95	69.22
25	66.20	77.23	88.26	24.67	34.89	42.73	49.34	60.43	69.77
26	66.75	77.87	89.00	24.88	35.18	43.08	49.75	60.93	70.35
27	67.34	78.66	89.78	25.09	35.49	43.47	50.19	61.47	70.97
28	67.96	79.28	90.61	25.32	35.81	43.86	50.65	62.03	71.62
29	68.60	80.03	91.46	25.56	36.15	44.28	51.13	62.62	72.30
30	69.28	80.83	92.38	25.82	36.51	44.70	51.64	63.24	73.02
31	69.99	81.65	93.32	26.08	36.88	45.18	52.16	63.99	73.77
32	70.75	82.54	94.33	26.37	37.29	45.67	52.73	64.58	74.57
33	71.54	83.46	95.38	26.66	37.70	46.18	53.32	65.30	75.40
34	72.37	84.43	96.50	26.97	38.14	46.74	53.94	66.06	76.20
35	73.24	85.45	97.66	27.29	38.60	47.28	54.59	68.86	77.20
36	74.16	86.52	98.88	27.64	39.08	47.87	55.27	66.70	78.18
37	75.13	87.65	100.17	28.00	39.59	48.49	55.99	68.58	79.18
38	76.14	88.13	101.52	28.37	40.13	49.15	56.75	69.50	80.25
39	77.31	90.08	102.94	28.77	40.69	49.84	57.55	70.48	81.38
40	78.32	91.38	104.43	29.19	41.28	50.56	58.38	71.50	82.55
41	79.50	92.75	106.00	29.63	41.90	51.32	50.25	72.57	93.79
42	80.74	94.20	107.66	30.09	42.55	52.12	60.18	73.70	85.10
43	82.03	95.70	109.38	30.57	43.23	52.95	61.14	74.88	86.40
44	83.41	97.31	111.22	31.08	43.96	53.84	62.17	76.14	87.92
45	84.85	98.99	113.14	31.62	44.72	54.77	63.24	77.46	89.43

ANNEXURE – I

Continued

Slope degree	1	2	3	4	5	6	7	8	9	10	20	30	40	50
46	1.44	2.88	4.32	5.76	7.20	8.64	10.08	11.52	12.96	14.40	28.79	43.19	57.58	71.98
47	1.47	2.93	4.40	5.87	7.33	8.80	10.26	11.73	13.20	14.66	29.33	43.99	58.65	73.31
48	1.49	2.99	4.48	5.98	7.47	8.97	10.46	11.96	13.45	14.94	29.89	44.83	59.78	74.72
49	1.52	3.05	4.57	6.10	7.62	9.15	10.67	12.19	13.72	15.24	30.49	45.73	60.97	76.21
50	1.56	3.11	4.67	6.22	7.78	9.33	10.89	12.45	14.00	15.56	31.11	46.67	62.23	77.79
51	1.58	3.18	4.77	6.36	7.95	9.53	11.12	12.71	14.30	15.89	31.78	47.67	63.56	79.45
52	1.62	3.25	4.87	6.50	8.12	9.75	11.37	12.99	14.62	16.24	32.49	48.73	64.97	81.21
53	1.66	3.32	4.98	6.65	8.31	9.97	11.63	13.29	14.95	16.62	33.23	49.85	66.47	83.08
54	1.70	3.40	5.10	6.81	8.51	10.21	11.91	13.61	15.31	17.01	34.03	51.04	68.05	85.07
55	1.74	3.49	5.25	6.97	8.72	10.46	12.20	13.95	15.69	17.45	34.87	52.30	69.74	87.17
56	1.79	3.58	5.36	7.15	8.94	10.73	12.52	14.31	16.09	17.88	35.77	53.65	71.53	89.41
57	1.84	3.67	5.51	7.34	9.18	11.02	12.85	14.69	16.52	18.36	36.72	55.08	73.44	91.80
58	1.89	3.77	5.66	7.55	9.44	11.32	13.21	15.10	16.98	18.87	37.74	56.61	75.48	94.35
59	1.94	3.88	5.82	7.77	9.71	11.65	13.59	15.53	17.47	19.42	38.83	58.25	77.66	97.08
60	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	40.00	60.00	80.00	100.00
61	2.06	4.13	6.19	8.25	10.31	12.38	14.44	16.50	18.56	20.63	41.25	61.88	82.51	103.13
62	2.13	4.26	6.39	8.52	10.65	12.78	14.91	17.04	19.17	21.30	42.60	63.90	85.20	106.50
63	2.20	4.41	6.61	8.81	11.01	13.22	15.42	17.62	19.82	22.03	44.05	66.08	88.11	110.13
64	2.28	4.56	6.84	9.12	11.41	13.69	15.97	18.25	20.53	22.81	45.62	68.44	91.25	114.06
65	2.37	4.73	7.10	9.46	11.83	14.20	16.56	18.93	21.30	23.66	47.32	70.99	94.65	118.31
66	2.46	4.92	7.38	9.83	12.29	14.75	17.21	19.67	22.13	24.59	49.17	73.76	98.34	122.93
67	2.56	5.12	7.68	10.24	12.80	15.36	17.92	20.47	23.03	25.59	51.19	76.78	102.37	127.97
68	2.67	5.34	8.01	10.68	13.35	16.02	18.69	21.36	24.03	26.69	53.39	80.08	106.78	133.47
69	2.79	5.58	8.37	11.16	13.95	16.74	19.53	22.32	25.11	27.90	55.81	83.71	111.62	139.52
70	2.92	5.85	8.77	11.70	14.62	17.54	20.47	23.39	26.31	29.24	58.48	87.71	116.95	146.19

ANNEXURE - I

Continuation sheet

Slope degree	60	70	80	22.36	31.62	38.73	44.72	54.77	63.24
46	86.37	100.77	115.16	32.19	45.52	55.75	64.38	78.84	91.04
47	87.98	102.64	117.30	32.79	46.36	56.79	65.57	80.31	92.73
48	89.67	104.61	119.56	33.42	47.26	57.88	66.83	81.85	94.51
49	91.46	106.70	121.94	34.08	48.20	59.03	68.16	83.48	96.39
50	93.34	108.90	124.46	34.79	49.19	60.25	69.57	85.21	98.38
51	95.34	111.25	127.12	35.53	50.24	61.54	71.06	87.03	100.49
52	97.46	113.70	129.94	36.32	51.36	62.91	72.64	88.96	102.72
53	99.70	116.31	132.93	37.15	52.54	64.36	74.31	91.01	105.08
54	102.08	119.09	136.10	38.04	53.80	65.89	76.08	93.18	107.59
55	104.61	122.04	139.48	38.98	55.13	67.52	77.97	95.49	110.26
56	107.30	125.18	143.06	39.99	56.55	69.26	79.97	97.94	113.09
57	110.16	128.53	146.89	41.05	58.06	71.11	82.11	100.56	116.11
58	113.22	132.10	150.97	42.20	59.67	73.09	84.39	103.36	119.34
59	116.50	135.91	155.33	43.41	61.39	75.20	86.83	106.34	122.79
60	120.00	140.00	160.00	44.72	63.24	77.46	89.44	109.54	126.48
61	123.76	144.39	165.01	46.12	65.22	79.89	92.24	112.97	130.44
62	127.80	149.10	170.40	47.63	67.35	82.50	95.26	116.66	134.70
63	132.16	154.19	176.22	49.25	69.65	85.31	98.50	120.64	139.30
64	136.87	159.68	182.49	51.01	72.13	88.35	102.01	124.94	144.26
65	141.97	165.63	189.30	52.91	74.82	91.64	105.82	129.60	149.64
66	147.52	172.10	196.69	54.97	77.74	95.22	109.95	134.66	155.48
67	153.56	179.15	204.74	57.23	80.93	99.12	114.45	140.17	161.85
68	160.17	186.86	213.56	59.69	84.41	103.39	119.38	146.21	168.82
69	167.43	195.33	223.23	62.39	88.23	108.07	124.79	152.83	176.47
70	175.43	204.67	233.90	65.38	92.45	113.24	130.75	160.14	184.90

ANNEXURE - II

Code of different states and union territories in each zone

FSI Zone	Code No.	State/U.T.
Northern Zone Code - 1	01	Jammu & Kashmir (U.T.)
	02	Himachal Pradesh
	03	Punjab
	04	Chandigarh (U.T.)
	05	UttrakhandUttarakhand
	06	Haryana
	07	Delhi
	08	Rajasthan
	09	Uttar Pradesh
	37	Laddakh (U.T.)
Central Zone Code - 2		
	22	Chhattisgarh
	23	Madhya Pradesh
	24	Gujarat
	25	Daman & Diu (U.T.)
	26	Dadra & Nagar Haveli (U.T.)
	27	Maharashtra
	30	Goa
Southern Zone Code - 3	28	Andhra Pradesh
	29	Karnataka
	31	Lakshadweep (U.T.)
	32	Kerala
	33	Tamil Nadu
	34	Pondicherry (U.T.)
	36	Telangana
Eastern Zone Code - 4	10	Bihar
	11	Sikkim
	12	Arunachal Pradesh
	13	Nagaland
	14	Manipur
	15	Mizoram
	16	Tripura
	17	Meghalaya
	18	Assam
	19	West Bengal
	20	Jharkhand
	21	Odisha
	35	Andaman & Nicobar Islands (UT)

ANNEXURE - III

Code of districts and forest divisions in each state

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
01	**JAMMU & KASHMIR**	01	Kupwara	01	01	Baramula
		02	Baramula	01	02	Langate
		03	Srinagar	01	03	Zangali
		04	Badgam	01	04	Karalpora
		05	Pulwama	01	05	Bijbehare
		06	Anantnag	01	06	Khanabal
		07		01	07	Shopian
		08		01	08	Ganderbal
		09	Doda	01	09	Chittarnar
		10	Udhampur	01	10	Budgam
		11	Punch	01	11	Batote
		12	Rajauri	01	12	Ramban
		13	Jammu	01	13	Doda
		14	Kathua	01	14	Bhaderwah
		15	Bandipore	01	15	Kishtwar
		16	Ganderbal	01	16	Marwah
		17	Kishtwar	01	17	Reasi
		18	Kulaga	01	18	Rajouri
		19	Ramban	01	19	Poonch
		20	Reasi	01	20	Nowshena
		21	Samba	01	21	Mahore
		22	Shupiyan	01	22	Jammu
					23	Kathua
					24	Udhampur
					25	Billawar
					26	Ram Nagar
					27	Urban Forest Division, Srinagar
					28	Tangmarg
					30	Basoli Forest Division
					31	Sambha Forest Division
					32	Anantnag Forest Division
					33	Awntipora Forest Division
					34	Jhellum Valley Forest Division
					35	Kamraj Forest Division
					36	Lidder Forest Division
					37	Sindyh Forest Division
02	**HIMACHAL PRADESH**	01	Chamba	01	01	Bilaspur
		02	Kangra	01	02	Bharmour
		03	Lahul & spiti	01	03	Chamba
		04	Kullu	01	04	Churah
		05	Mandi	01	05	Dalhousie
		06	Hamirpur	01	06	Pagi
		07	Una	01	07	Hamirpur
		08	Bilaspur	01	08	Dharmashala
		09	Solan	01	09	Dehra

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
		10	Sirmaur	01	10	Nurpur
		11	Shimla	01	11	Palampur
		12	Kinnaur	01	12	Kulllu
					13	Seraj
					14	Parvati
					15	Kotgarh
					16	Rampur
					17	Lahaul
					18	Spiti
					19	Mandi
					20	Nachan
					21	Karsog
					22	Joginder Nagar
					23	Suket
					24	Chopal
					25	Jubbal
					26	Rohru
					27	Shimla
					28	Theog
					29	Nahan
					30	Paonta
					31	Rajgarh
					32	Renuka
					33	Kunihar
					34	Nalagarh
					35	Solan
					36	Una
					37	Nichan
					38	Pooh
					39	Kinnaur
					40	Upper Ravi
					41	Kaza
					42	Sundergarh
					43	City FD Shimla
					44	Great Himalayan National Park
					45	Shimla Wildlife Division
					46	Anni Forest Division
					47	Saloni Forest Division
					48	Pangi Forest Division
					49	Chamba Wild Life
03	**PUNJAB**	01	Gurdaspur	04, 35% in 01	01	Amritsar
		02	Amritsar	04	02	Jalandhar
		03	Kapurthala	04	03	Gurdaspur
		04	Jalandhar	04	04	Ludhiana
		05	Hosiarpur	04, 20% in 01	05	Firozpur
		06	Nawanshahr	04	06	Patiala
		07	Rupnagar	04, 40% in 01	07	Sangrur
		08	Fatehgarh Sahib	04	08	Faridkot
		09	Ludhiana	04	09	Bhatinda
		10	Moga	04	10	Mansa
		11	Firozpur	04	11	Fatehgarh Sahib

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
		12	Muktsar	04	12	Ropar
		13	Faridkot	04	13	Hoshiarpur
		14	Bhatinda	04	14	Garhshankar
		15	Mansa	04	15	Dasuya
		16	Sangrur	04	16	Mohali
		17	Patiala	04	17	Pathankot
		18	Barnala	04	18	Patiyala Wild Lif Division
		19	Sahibzada Ajit Singh Nagar (Mohali)	04		
		20	Tarn Taran	04		
04	**CHANDIGARH**	01	Chandigarh	04	01	Chandigarh
05	**UTTARAKHAND**	01	Uttarkashi	01	01	Almora (East)
		02	Chamoli	01	02	Almora (West)
		03	Rudraprayag	01	03	Pithoragarh Forest Division
		04	Tehri Garhwal	01	04	Pithoragarh (South)
		05	Dehradun	01	05	Nainital
		06	Garhwal	01	06	Haldwani
		07	Pithoragarh	01	07	Haldwani (Tarai East)
		08	Bageshwar	01	08	Haldwani (Tarai Central)
		09	Almora	01	09	Haldwani (Tarai West)
		10	Champawat	01	10	Ram Nagar
		11	Nainital	01	11	Lansdowne
		12	Udhamsingh Nagar	04	12	Dehradun
		13	Hardwar	04	13	Kalsi
					14	Hardwar
					15	Tons
					16	Mussoorie
					17	Chakrata
					18	Upper Yamuna
					19	Narendra Nagar
					20	Tehri
					21	Uttarkashi
					22	Tehri Dam-I
					23	Tehri Dam-II
					24	Garhwal
					25	Badrinath
					26	Karna Prayag
					27	Ram Nagar (Tiger Reserve)
					28	Kalagarh (Tiger Reserve)
					29	Champawat
					30	Civil Soyam
					31	Rajaji NP (Haridwar)
					32	Bageshwar
					33	Gangotri National Park
					34	Govind Pashu Vihar National Park
					35	Nanda Devi National Park
					36	Corbett Tiger Reserve
					37	Upper Ganga Forest Division
					38	Rudraprayag Forest Division
					39	Kedarnath Wild Life

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
						Division,Gopeshwar
					40	CCF Environment,Haldwani
					41	CF Environment Dehradun
					42	Pithoragarh Forest Division
06	**HARYANA**	01	Panchkula	04	01	Morni Pinjore
		02	Ambala	04	02	Ambala
		03	Yamunanagar	04	03	Yamuna Nagar
		04	Kurukshetra	04	04	Krukshetra
		05	Kaithal	04	05	Kaithal
		06	Karnal	04	06	Karnal
		07	Panipat	04	07	Sonipat
		08	Sonipat	04	08	Gurgaon
		09	Jind	04	09	Mohindergarh
		10	Fatehabad	04	10	Rohtak
		11	Sirsa	04	11	Faridabad
		12	Hisar	04	12	Bhiwani
		13	Bhiwani	04	13	Hissar
		14	Rohtak	04	14	Jind
		15	Jhajjar	04	15	Sirsa
		16	Mahendragarh	04, 15% in 07	16	Panipat
		17	Rewari	04	17	Jhajjar
		18	Gurgaon	04	18	Fatehabad
		19	Faridabad	04	19	Rewari
		20	Mewat		20	Palwal
		21	Palwal		21	Mewat
07	**DELHI**	01	North West	04	01	Central
		02	North	04	02	West
		03	North East	04	03	South
		04	East	04		
		05	New Delhi	04		
		06	Central	04		
		07	West	04		
		08	South West	04		
		09	South	04		
08	**RAJASTHAN**	01	Ganganagar	06	01	Ajmer
		02	Hanumangarh	06	02	Barmer
		03	Bikaner	06	03	Bharatpur
		04	Churu	06	04	Bikaner
		05	Jhunjhunun	06, 45% in 07	05	Chhatargarh
		06	Alwar	07	06	Bundi
		07	Bharatpur	07	07	Chittorgarh
		08	Dhaulpur	07	08	Pratapgarh
		09	Karauli	07	09	Jodhpur
		10	Sawai Madhopur	07	10	Churu
		11	Dausa	07	11	Hanunangarh
		12	Jaipur	07	12	Dungarpur
		13	Sikar	07, 48% in 06	13	Ganganagar
		14	Nagaur	06, 20% in 07	14	Jaipur (East)
		15	Jodhpur	06	15	Jaipur (West)
		16	Jaisalmer	06	16	Alwar
		17	Barmer	06	17	Jaisalmer

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
		18	Jalor	06	18	Jalore
		19	Sirohi	06, 48% in 07	19	Jhalawar
		20	Pali	06, 15% in 07	20	Jhunjhunu
		21	Ajmer	07	21	Kota
		22	Tonk	07	22	Nagaur
		23	Bundi	07	23	Pali
		24	Bhilwara	07	24	Rajsamand
		25	Rajsamand	07	25	Swai Madhopur
		26	Udaipur	07	26	Karauli
		27	Dungarpur	07	27	Sikar
		28	Banswara	07	28	Sirohi
		29	Chittaurgarh	07	29	Banswara
		30	Kota	07	30	Tonk
		31	Baran	07	31	Udaipur (North)
		32	Jhalawar	07	32	Udaipur (South)
		33	Pratapgarh	07	33	Bharatpur
					34	Udaipur
					35	Suratgarh
					36	Baran (West)
					37	Baran (East)
					38	Mount Abu
					39	Sariska (TP)
					40	Jaipur (Central)
					41	Dausa
					42	Dholpur
					43	Bhilwara
					44	Kumbalgarh (Pali)
					45	Udaipur Central
					46	Sajjangarh WL Sanctury
					47	Phulwari WL Sanctury
					48	Jaismand WL Sanctury
					49	Sita Mata WL Sanctury
					50	Darrah WL Sanctuary
					51	Ranthambore Tiger Reserve
					52	Jodhpur WL Division
					53	Jaipur Division
09	**UTTAR PRADESH**	01	Saharanpur	04	01	Meerut
		02	Muzaffarnagar	04	02	Bulandshaher
		03	Bijnor	04	03	Ghaziabad
		04	Moradabad	04	04	Gautam Budh Nagar
		05	Rampur	04	05	Muzaffar Nagar
		06	Jyotiba Phule Nagar	04	06	Saharanpur
		07	Meerut	04	07	Moradabad
		08	Baghpat	04	08	Jyotiba Phule Nagar
		09	Ghaziabad	04	09	Rampur
		10	Gautam Budh Nagar	04	10	Bijnor
		11	Bulandshahar	04	11	Agra
		12	Aligarh	04	12	Ferozabad
		13	Hathras	04	13	Mathura
		14	Mathura	04	14	Hathras
		15	Agra	04, 15% in 07	15	Mainpuri

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
		16	Firozabad	04	16	Aligarh
		17	Etah	04	17	Etah
		18	Mainpuri	04	18	Baraily
		19	Budaun	04	19	Budaun
		20	Bareilly	04	20	Shahjahanpur
		21	Pilibhit	04	21	Piliphit
		22	Shahjahanpur	04	22	Allahabad
		23	Khiri	04	23	Kaushambi
		24	Sitapur	04	24	Fatehpur
		25	Hardoi	04	25	Pratapgarh
		26	Unnao	04	26	Gorakhpur
		27	Lucknow	04	27	Kushi Nagar
		28	Rao Bareli	04	28	Deoria
		29	Farrukhabad	04	29	Basti
		30	Kannauj	04	30	Siddharth nagar
		31	Etawah	04	31	Ajamgarh
		32	Auraiya	04	32	Mau
		33	Kanpur Dehat	04	33	Balia
		34	Kanpur Nagar	04	34	Varanasi
		35	Jalaun	07	35	Gazipur
		36	Jhansi	07	36	Jaunpur
		37	Lalitpur	07	37	Mirzapur
		38	Hamirpur	07	38	Bhadohi
		39	Mahoba	07	39	Sonbhadra
		40	Banda	07	40	Avadh
		41	Chitrakoot	07	41	Rae Bareli
		42	Fatehpur	04	42	Hardoi
		43	Pratapgarh	04	43	Unnao
		44	Kaushambi	04	44	Sitapur
		45	Allahabad	04, 40% in 07	45	Khiri North
		46	Barabanki	04	46	Khiri South
		47	Faizabad	04	47	Kanpur
		48	Ambedkar Nagar	04	48	Etawah
		49	Sultanpur	04	49	Farrukabad
		50	Bahraich	04	50	Faizabad
		51	Shrawasti	04	51	Ambedkar Nagar
		52	Balrampur	04	52	Sultanpur
		53	Gonda	04	53	Barabanki
		54	Siddarthnagar	04	54	Bahraich
		55	Basti	04	55	Gonda
		56	Sant kabir Nagar	04	56	Shravasti
		57	Mahrajganj	04	57	Jhansi
		58	Gorakpur	07	58	Urai
		59	Kushinagar	04	59	Lalitpur
		60	Deoria	04	60	Hamirpur
		61	Azamgarh	04	61	Mahoba
		62	Mau	04	62	Banda
		63	Ballia	04	63	Chitrakoot
		64	Jaunpur	04	64	Shiwalik
		65	Ghazipur	04	65	Rankoot
		66	Chandauli	04, 45% in 07	66	Obera

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
		67	Varanasi	04	67	Kishanpur N P
		68	Sant Ravidas Nagar	04	68	Chambal National Park
		69	Mirzapur	07	69	Dudhwa Tiger Reserve
		70	Sonbhadra	04	70	Sohagibarwa WL Division
		71	Kanshiram Nagar	04	71	Kanpur Dehat FD Mati
				04	72	Amethi forest division
				04	73	Kaimur WL Division Mirzapur
				07	74	CF Training Kanpur
				04	75	Amethi
				04	76	Auriya
				04	77	Balrampur
					78	Chandauli
					79	Kashi WL Division
					80	Katarniaghat Wild Life Division
					81	Ramnagar Wild Life
10	**BIHAR**	01	Pashchim Champaran	05	01	Sasaram
		02	Purba Champaran	05	02	Kaimur(Bhabhua) Forest Division
		03	Sheohar	05	03	Ara
		04	Sitamarhi	05	04	Patna
		05	Madhubani	05	05	Nalanda
		06	Supaul	05	06	Gaya
		07	Araria	05	07	Nawada
		08	Kishanganj	05	08	Munger
		09	Purnia	05	09	Banka
		10	Katihar	05	10	Jamui
		11	Madhepura	05	11	Muzaffarpur
		12	Saharsa	05	12	Darbhanga
		13	Darbhanga	05	13	Chhapra
		14	Muzaffarpur	05	14	Sewan
		15	Gopalganj	05	15	Purnia
		16	Siwan	05	16	Katihar
		17	Saran	05	17	Begusarai
		18	Vaishali	05	18	Saharsa
		19	Samastipur	05	19	Shahabad
		20	Begusarai	05	20	Purnia Extn.
		21	Khagaria	05	21	Lakhisarai
		22	Bhagalpur	05		
		23	Banka	05, 30% in 09	23	Bettiah
		24	Munger	05, 20% in 09	24	Bettiah-1
		25	Lakhisarai	05, 15% in 09	25	Bettiah-2
		26	Sheikhpura	05	26	Central Circle Wildlife Sanctuary ,Kaimur
		27	Nalanda	05	27	Ramnagar Forest Division
		28	Patna	05	28	Aurangabad Forest Division
		29	Bhojpur	05	29	Valmiki Tiger Reserve (VTR) Ramnagar
		30	Buxar	05	30	VTR-1, Ramnagar
		31	Kaimur (Bhabua)	07, 40% in 05	31	VTR-2, Ramnagar
		32	Rohtas	05	32	VTR-1, Valmikinagar
		33	Jehanabad	05	33	Rohtas Forest Division

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
		34	Aurangabad	05		
		35	Gaya	05, 20% in 09		
		36	Nawada	05		
		37	Jamui	09, 20% in 05		
		38	Arwal			
11	**SIKKIM**	01	North	02	01	North
		02	West	02	02	West
		03	South	02	03	South
		04	East	02	04	East
12	**ARUNACHALPRADESH**	01	Tawang	02	01	Bomdila
		02	West Kameng	02	02	Shergaon
		03	East Kameng	02	03	Khellong
		04	Papum Pare	02	04	Seppa
		05	Lower Subansiri	02	05	Banderdewa
		06	Upper Subansiri	02	06	Sagalee
		07	West Siang	02	07	Hapoli
		08	East Siang	02	08	Daporijo
		09	Upper Siang	02	09	Along
		10	Dibang Valley	02	10	Pasighat
		11	Lohit	03	11	Yingkiong
		12	Changlang	03	12	Debang
		13	Tirap	03	13	Lohit
		14	Kurung Kum	02	14	Namsai
		15	Anjaw	02	15	Deomali
		16	Lower Dibang Valley	02	16	Khonsa
					17	Nampong
					18	Rowing
					19	Anini
					20	Pakai WF Division
					21	Tawang
					22	Kurungkuney
					23	Anjaw
					24	Joyrampur
					25	Namdafa Tiger Reserve
					26	Koloriong
13	**NAGALAND**	01	Mon	03	01	Kohima
		02	Tuensang	03	02	Peren
		03	Mokokchung	03	03	Wokha
		04	Zunheboto	03	04	Phek
		05	Wokha	03	05	Mokokchung
		06	Dimapur	03	06	Tuensang
		07	Kohima	03	07	Mon
		08	Phek	03	08	Zunheboto
		09	Kiphire	03	09	Dimapur
		10	Longleng	03		
		11	Peren	03		
14	**MANIPUR**	01	Senapati	03	01	Porompat
		02	Tamenglong	03	02	Thoubal
		03	Churachandpur	03	03	Bishnupur
		04	Bishnupur	03	04	Ukhrul

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
		05	Thoubal	03	05	Kangpokpi
		06	Imphal West	03	06	Cepur
		07	Imphal East	03	07	Tamenglong
		08	Ukhrul	03	08	Lamphelpat
		09	Chandel	03	09	Chandel
					10	Central division(Imphal West)
					11	Tegnopal
					12	Imphal East Forest Division
					13	Senapati
15	MIZORAM	01	Mamit	03	01	Aizwal
		02	Kolasib	03	02	Darlawn
		03	Aizwal	03	03	Champhai
		04	Champhai	03	04	Kolasib
		05	Serchhip	03	05	Kawr Thal
		06	Lunglai	03	06	Mamit
		07	Lawngtlai	03	07	Thenzawl
		08	Saiha	03	08	Lunglai
				03	09	Vanlaiphai (North)
					10	T Labung
					11	Chhimtuipui
					12	Saiha
16	TRIPURA	01	West Tripura	03	01	Agartala
		02	Soluth Tripura	03	02	Teliamura
		03	Dhalai	03	03	Ambassa
		04	North Tripura	03	04	Manu
					05	Kailasahgr
					06	Kanchanpjur
					07	Udaipur
					08	Bagafa
					09	Jatanbari
					10	Gumti Forest Division
					11	Sepahijala
					12	Belonia
					13	Unakoti
					14	Dharma Nagar
					15	Khowai
					16	Sabroom
					17	Trishna Wildlife
					18	Sonamura
					19	Gomuti Wild Life FD
					20	Amarpur
					21	Gandachara
17	MEGHALAYA	01	West Garo Hills	03	01	Shillong
		02	East Garo Hills	03	02	Jowar
		03	South Garo Hills	03	03	Tura
		04	West Khasi Hills	03	04	Ribhoi Forest Division
		05	Ri Bhoi	03	05	Nongstone Forest Division
		06	East Khasi Hills	03	06	East Khasi Hill
		07	Jaintia Hills	03	07	East garo Hill

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				03	08	North Garo Hill
				03	09	South Garo Hill
18	ASSAM	01	Kokrajhar	05	01	Kamrup (East)
		02	Dhubri	05	02	Kamrup (West)
		03	Goalpara	05	03	Kamrup (North)
		04	Bangaigaon	05	04	Goalpara
		05	Barpeta	05	05	Darrang (East)
		06	Kamrup	05	06	Darrang (West)
		07	Nalbari	05	07	Lakhimpur
		08	Darrang	05	08	Nagaon
		09	Marigaon	05	09	Nagaon (South)
		10	Nagaon	05, 40% in 03	10	Aie-Valley
		11	Sonitpur	05	11	Kachugaon
		12	Lakhimpur	05	12	Haltugaon
		13	Dhemaji	05	13	Dhubri
		14	Tinsukia	05, 30% in 03	14	Dibrugarh
		15	Dibrugarh	05	15	Golaghat
		16	Sibsagar	05	16	Sibsagar
		17	Jorhat	05	17	Digboi
		18	Golaghat	05, 40% in 03	18	Doom Dooma
		19	Karbi Anglong	05, 45% in 03	19	Silchar
		20	North Cachar Hills	03	20	Karimganj
		21	Cachar	03	21	N.C. Hills
		22	Karimganj	03	22	K.A. (East)
		23	Hailakandi	03	23	K.A. (West)
		24	Baksa		24	Hamren
		25	Chirang		25	Bakhimpur
		26	Kamrup		26	Haltugaon
		27	Udalguri		27	West Assam
					28	Eastern Assam
					29	Dhansari
					30	Dimahaso(west)
					31	Hailakandi
					32	Half Long-West
					33	Tinsukhia W.L
					34	Parbotjhora
					35	Kachugaon
					36	Half Long-East
					37	Jorhat
					38	Chirang
					39	Sonitpur East
					40	Dhemaji
					41	Diphu East
					42	DiphuWest
					43	Mushalpur
					44	West Karbi Anglong
					45	Dimahato East FD
					46	Sonitpur West

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
					47	Tejpur FD
					48	Mangladai FD
					49	Baksa FD
					50	Manas Tiger Reserve FD
					51	Manas N.P. Division
19	WEST BENGAL	01	Darjiling	01, 30% in 05	01	Bankura (North)
		02	Jalpaiguri	05	02	Bankura (South)
		03	Koch Bihar	05	03	Birbhum
		04	Uttar Dinajpur	05	04	Bardwan
		05	Dakshin Dinajpur	05	05	Cooch Bihar – Wildlife - III
		06	Maldah	05	06	Baikunthapur
		07	Murshidabad	05	07	Darjiling
		08	Birbhum	05	08	Kurseong
		09	Barddhaman	05	09	Buxa (East)
		10	Nadia	05	10	Buxa (West)
		11	North 24 Parganas	05	11	Jalpaiguri
		12	Hugli	05	12	Dinajpur (West)
		13	Bankura	05	13	Midnapore (East)
		14	Puruliya	05	14	Midnapore (West)
		15	Medinipur	05	15	Nadia Murshidabad
		16	Haora	05	16	24 Pargana (North)
		17	Culcutta	05	17	24 Pargana(South)
		18	South 24 Parganas	05	18	Purulia
		19	Purba Medinipur	05	19	Central Forest Div.
				05	20	Bishnupur
					21	Wild life – II
					22	Kansabati soil conservation division I
					23	Kansabati soil conservation division II
					24	Malda
					25	Kharagpur Social Forest
					26	Jaldapara Wildlife Division
					27	South Kongsabati Forest Division
					28	North Kongsabati Forest Division
					29	Jhargram Forest Division
					30	Kalimpong Forest Division
					31	Panchet Forest Division
					32	Rupnarayan Forest Division
					33	Darjeeling Wildlife Division
					34	Gourumara Wild life
					35	Sunderban Tiger Reserve
20	JHARKHAND	01	Garhwa	09	01	Garhwa (North)
		02	Palamu	09	02	Garhwa (South)
		03	Chatra	09	03	Chhatra (North)
		04	Hazaribagh	09	04	Chhatra (South)
		05	Kodarma	09	05	Hazaribagh (East)
		06	Giridih	09	06	Hazaribagh (West)

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		07	Deoghar	09	07	Koderma
		08	Godda	09	08	Giridih
		09	Sahibganj	09	09	Deoghar
		10	Pakaur	09	10	Shaibganj
		11	Dumka (Santhal Pargana)	09	11	Dumka
		12	Dhanbad	09	12	Dhanbad
		13	Bokaro	09	13	Ranchi (East)
		14	Ranchi	09	14	Ranchi (West)
		15	Lohardaga	09	15	Gumla
		16	Gumla	09	16	Khunti
		17	Pashchimi singhbhum	09	17	Kolhan
		18	Purbi Singhbhum	09	18	Porahat
		19	Jamtara	09	19	Chaibasa (South)
		20	Khunti	09	20	Chaibasa (North)
		21	Latehar		21	Dalbhum
		22	Ramgarh		22	Latehar
		23	Saraikela-Kharsawan		23	Daltanganj (North)
		24	Simdega		24	Daltanganj (South)
					25	Godda FD
					26	Pakur FD
					27	Lohardaga FD
					28	Bokaro
					29	Kolebira
					30	Palamu Tiger Reserve (South)
					31	Palamu Tiger Reserve (North)
					32	Medninagar
					33	Sarikele
					34	Dalma Wild Life Sanctuary
21	ODISHA	01	Bargarh	09	01	Angul
		02	Jharsuguda	09	02	Athamallik
		03	Sambalpur	09	03	Deogarh
		04	Debagarh	09	04	Baripada
		05	Sundargarh	09	05	Sambalpur
		06	Kendujhar	09	06	Khariar
		07	Mayurbhanj	09, 35% in 14	07	Jeypore
		08	Baleshwar	14, 20% in 09	08	Bolangir
		09	Bhadrak	14	09	Boudh
		10	Kndrapara	14	10	Athagarh
		11	Jagatsinghapur	14	11	Puri
		12	Cuttack	14, 30% in 09	12	Bamra
		13	Jajapur	14, 35% in 09	13	Dhenkanal
		14	Dhenkanal	09	14	Parla Khemundi
		15	Anugul	09	15	Ghumsur (North)
		16	Nauagarh	12	16	Ghumsur (South)
		17	Khordha	14, 20% in 12	17	Kalahandi

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		18	Puri	14	18	Phulbani
		19	Ganjam	12, 45% in 14	19	Balliguda
		20	Gajapati	12	20	Keonjhar
		21	Kandhamal	12	21	Nowrangour
		22	Baudh	12	22	Rayagadha
		23	Sonapur	09	23	Karanjia
		24	Balangir	09	24	Nayagarh
		25	Nuapada	09	25	Raira Khel
		26	Kalahandi	09, 30% in 12	26	Sundargarh
		27	Rayagada	12	27	Bonai
		28	Nabarangapur	09	28	Nuaoada
		29	Koraput	12, 15% in 09	29	Khurda
		30	Malkangiri	12	30	Koraput FD
					31	Anandapur FD
					32	Balasore WildLife FD
					33	Bargarh FD
					34	Jharsuguda FD
					35	Rai Rangpur FD
					36	Rourkela FD
					37	Satkosia Wildlife FD
					38	Katak FD
					39	Barhampur FD
					40	Mahanadi Wildlife Division
					41	Ganjam FD
					42	Sobaranpur FD
					43	Keondjhar Wild Life FD
					44	Mangrove FD , Rajnagar
					45	Malkangiri
					46	Rairangpur
					47	Simlipal Tiger Reserve
					48	Sonabera Wild Life
					49	Hirakud Wild Life FD
					50	Kalahandi North
					51	Kalahandi South
					52	Nabarangapur
					53	Chandaka Wild Life
22	CHHATTISGARH	01	Koria	09	01	Kawardha
		02	Surguja	09	02	Rajnandgaon
		03	Jashpur	09	03	Khairagarh
		04	Raigarh	09	04	Durg
		05	Korba	09	05	Raipur
		06	Janjgir-Champa	09	06	Raipur East
		07	Bilaspur	09	07	Udanti
		08	Kabirdham (Kawardha)	09	08	Mahasumand
		09	Rajnandgaon	09	09	Damtari
		10	Durg	09	10	Kanker
		11	Raipur	09	11	Bhanupratappur East
		12	Mahasamund	09	12	Bhanupratappur West
		13	Dhamtari	09	13	Narayanpur
		14	Kanker	09	14	Kondagaon North

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
		15	Baster	09	15	Kondagaon South
		16	Dantewara	09	16	Baster
		17	Bijapur		17	Dantewada
		18	Narayanpur		18	Vijaypur
		19	Balrampur		19	Sukuma
		20	Surajpur		20	Bilaspur
		21	Mungeli		21	Janjgir (Champa)
		22	Bemetara		22	Korba
		23	Balod		23	Katghora
		24	Gariyaband		24	Raigarh
		25	Balodabazar-Bhatapara		25	Dharamhjaigarh
		26	Kondagaon		26	Jashpur
		27	Sukma		27	Sarguja North
					28	Sarguja East
					29	Sarguja South
					30	Korea
					31	Manandragarh
					32	Marwahi
					33	Sarguja
					34	Balrampur
					35	Surajpur
					36	Guru Ghasidas National Park
					37	Bilaspur
					38	Mungeli
					39	Balod
					40	Gariyaband
					41	Balodabazar
					42	Kanger Vally NP
					43	Bijapur Indrawati NP
23	**MADHYA PRADESH**	01	Sheopur	07	01	Balaghat North
		02	Morena	07	02	Balaghat South
		03	Bhind	07	03	Betul North
		04	Gwalior	07	04	Betul South
		05	Datia	07	05	Betul West
		06	Shivpuri	07	06	Bhopal
		07	Guna	07	07	Sehore
		08	Tikamgarh	07	08	Abdullahganj
		09	Chhatarpur	07	09	Raisen
		10	Panna	07	10	Rajgarh
		11	Sagar	07	11	Vidisha
		12	Damoh	07	12	Chhindwara East
		13	Satna	07	13	Chhindwara West
		14	Rewa	07	14	Chhindwara South
		15	Umaria	09, 25% in 08	15	Gwalior
		16	Shahdol	09, 30% in 08	16	Datia
		17	Sidhi	09	17	Bhind
		18	Neemuch	07	18	Morena
		19	Mandsaur	07	19	Sheopur Kala
		20	Ratlam	07	20	Hoshangabad
		21	Ujjain	07	21	Harda

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		22	Shajapur	07	22	Indore
		23	Dewas	07	23	Dhar
		24	Jhabua	07, 25% in 08	24	Jhabua
		25	Dhar	07, 15% in 08	25	Jabalpur
		26	Indore	07	26	Katani
		27	West Nimar (Khandwa)	08, 30% in 07	27	Mandla East
		28	Barwani	08	28	Mandla West
		29	East Nimar (Khargone)	08	29	Dindori
		30	Rajgarh	07	30	Khandwa (Nimar East)
		31	Vidisha	07	31	Burhanpur
		32	Bhopal	07	32	Khargone (Nimar Wset)
		33	Sehore	07	33	Badwaha
		34	Raisen	07	34	Badwain
		35	Betul	08	35	Sendhwa
		36	Harda	08	36	Rewa
		37	Hoshangabad	08	37	Satna
		38	Katni	09, 20% in 07	38	Sidhi East
		39	Jabalpur	07, 40% in 08	39	Sidhi West
		40	Narsimhapur	07, 45% in 08	40	Sagar North
		41	Dindori	08	41	Sagar South
		42	Mandla	08	42	Damoh
		43	Chhindwara	08	43	Shahdol North
		44	Seoni	08	44	Shahdol South
		45	Balaghat	08	45	Umria
		46	Alirajpur		46	Seoni North
		47	Anuppur		47	Seoni South
		48	Ashoknagar		48	Narsinghpur
		49	Burhanpur		49	Shivpuri
		50	Singrauli		50	Guna
					51	Chhatarpur
					52	Tikamgarh
					53	Panua North
					54	Panua South
					55	Ujjain
					56	Mansour
					57	Neemuch
					58	Ratlam
					59	Sajapur
					60	Dewas
					61	Ashoknagar FD,Ashoknagar
24	**GUJARAT**	01	Kachchh	06	01	Bhavnagar
		02	Banas kantha	06, 40% in 13	02	Banas Kantha
		03	Patan	13, 45% in 06	03	Rajpipla (West)
		04	Mahesana	13	04	Baria
		05	Sabar kantha	13, 35% in 07	05	Dangs (North)
		06	Gandhinagar	13	06	Dangs (South)
		07	Ahmadabad	13, 25% in 06	07	Gandhinagar
		08	Surendranagar	06	08	Jamnagar
		09	Rajkot	06	09	Junagarh

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		10	Jamnagar	06	10	Kachchh (East)
		11	Porbandar	06	11	Kachchh (West)
		12	Junagadh	06	12	Vyara
		13	Amreli	06	13	Godhra
		14	Bhavnagar	06	14	Saherkantha
		15	Anand	13	15	Saharkantha (South)
		16	Kheda	13	16	Surendranagar
		17	Panch Mahals	13	17	Chotaudepur
		18	Dohad	13	18	Valsad (North)
		19	Vadodara	13, 20% in 08	19	Valsad (South)
		20	Narmada	08	20	Rajpipla East
		21	Bharuch	13	21	Porbandar
		22	Surat	13, 20% in 11& 10% in 08	22	Social Forestry Division , Ahmedabad
		23	The Dangs	11	23	Social Forestry Division,Amreli
		24	Navsari	13, 20% in 11	24	Social Forestry Division,Anand
		25	Valsad	11, 30% in 13	25	Social Forestry Division Banaskantha,Palanpur
		26	Tapi		26	Social Forestry Division Bharuch
		27	Devbhumi Dwarka		27	Sub Division Bharuch
		28	Gir Somnath		28	Social Forestry Division Bhavnagar
		29	Aravali		29	Social Forestry Division Dhanod
		30	Botad		30	Social Forestry Division,Devgadhbaria
		31	Mahisagar		31	Social Forestry Division,Jamnagar
		32	Morbi		32	Social Forestry Division Junagarh
					33	Social Forestry Division,Bhuj
					34	Bannai Div.,Bhuj
					35	Social Forestry Division,Nadiad
					36	Social Forestry Division,Mehsana
					37	Social Forestry Division,Narmada,Rajpipla
					38	Social Forestry Division,Navsari
					39	Social Forestry Division,Godhra
					40	Territorial Division,Patan
					41	Social Forestry Division,Rajkot
					42	Rajkot Division,Rajkot
					43	Social Forestry Division,Sabarkantha,Himmatnagar
					44	Territorial Div,Surat
					45	Social Forestry Division,Surat
					46	Social Forestry Division,Surendranagar
					47	Social Forestry Division,Vadodara
					48	Social Forestry Division,Valsad
					49	Devbhumi Dwarka FD,Khambhaliya
					50	Gir Somnath Forest Div.,Veravali
					51	Aravali FD,Modasa
					52	Botad FD,Botad

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					53	Mahisagar Forest Division Lunawada
					54	Morbi FD,Morbi
					55	Banni Grassland Reserve,Bhuj
25	**DAMAN & DIU**	01	Diu	06		
		02	Daman	13		
26	**DADRA & NAGAR HAVELI**	01	Dadra & Nagar Haveli	11	01	Silvasa
27	**MAHARASHTRA**	01	Nandurbar	08, 20% in 11	01	Thane
		02	Dhule	08, 20% in 11	02	Dahanu
		03	Jalgaon	08	03	Shahapur
		04	Buldana	08	04	Jawhar
		05	Akola	08	05	Alibagh
		06	Washim	08	06	Roha
		07	Amaravati	08	07	Nasik (East)
		08	Wardha	08	08	Nasik (West)
		09	Nagpur	08	09	Ahmadnagar
		10	Bhandara	08	10	Dhule (North)
		11	Gondiya	08	11	Dhule (West)
		12	Gadchiroli	08	12	Mewasi
		13	Chandrapur	08	13	Jalgaon
		14	Yavatmal	08	14	Yawal
		15	Nanded	08	15	Pune
		16	Hingoli	08	16	Junnar
		17	Parbhani	08	17	Bhor
		18	Jalna	08	18	Solapur
		19	Aurangabad	08	19	Kolhapur
		20	Nashik	08, 40% in 11	20	Satara
		21	Thane	13, 40% in 11	21	Savantwadi
		22	Mumbai (Suburban)	13	22	Sangli (Subdiv)
		23	Mumbai	13	23	Chiplun (Subdiv)
		24	Raigarh	13, 40% in 11	24	Aurangabad
		25	Pune	08, 30% in 11	25	Nanded
		26	Ahmadnagar	08	26	Parbhani
		27	Bid	08	27	Beed (Sub Div)
		28	Latur	08	28	Osmanabad
		29	Osamanabad	08	29	Melghat (East)
		30	Solapur	08	30	Melghat (West)
		31	Satara	08, 30% in 11	31	Amravati
		32	Ratnagiri	13, 35% in 11	32	Budhana
		33	Sindhudurg	13, 40% in 11	33	Yavatmal
		34	Kolhapur	08, 45% in 11	34	Pusad
		35	Sangli	08, 15% in 11	35	Pandhar Kawada
					36	Akola
					37	Nagpur
					38	Wardha
					39	Bhandara
					40	Gondia
					41	Chandrapur
					42	Brahampuri
					43	Gadchiroli

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
					44	Wadsa
					45	Allapalli
					46	Bhamragad
					47	Sironcha
					48	Chanda (Central)
					49	Kolaba
					50	Koyna
					51	Bhor
28	**ANDHRA PRADESH**	01	Srikakulam	14, 30% in 12	01	Adilabad
		02	Vizianagaram	14, 45% in 12	02	Bellampally
		03	Visakhapatnam	12, 25% in 14	03	Nirmal
		04	East Godavari	14, 40% in 12	04	Kaghaznagar
		05	West Godavari	14, 30% in 12	05	Mancherial
		06	Krishna	14, 35% in 12	06	JannaramWL Management Division
		07	Guntur	14, 35% in 12	07	Anantpur
		08	Prakasam	14, 45% in 12	08	Chittoor (East)
		09	Nellore	14, 15% in 12	09	Chittoor (West)
		10	Cuddapah	12	10	Guntur
		11	Kurnool	12, 45% in 10	11	Giddalur
		12	Anantapur	10, 20% in 12	12	Nellore
		13	Chittoor	12	13	Markapur
					14	Kurnool
					15	Cudappa
					16	Produttur
					17	Nandyal
					18	Rajampet
					19	Atmakur
					20	Khammam
					21	Kothagudem
					22	Paloucha
					23	Bhadrachalam (North)
					24	Bhadrachalam (South)
					25	Nizamabad
					26	Kamareddy
					27	Medak
					28	Vishakapattanam
					29	Paderu
					30	Vizianagaram
					31	Srikakulam
					32	Narsipatnam
					33	Hydradad
					34	Nalgonda
					35	Mahbubnagar
					36	Achampet
					37	Kakinada
					38	Eluru
					39	Vijaywada
					40	Warangal (North)
					41	Warangal (South)
					42	Karim Nagar (East)

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
					43	Karim Nagar (West)
					44	Rajamundri WLFD
					45	Ongole Social FD
					46	Karimnagar Social FD
					47	Srikakulam Social FD
					48	Tirupathi Wildlife Manangement Division
					49	Tirumala Tirupathi Devasthanam Forests (TDD Forests)
					50	Eluru wildlife Manangement Division
					51	Sullurupeta Wildlife Manangement Division
					52	Chittoor wild life TPT FD
					53	Chittoor TTD Forest Division
					54	Koundinya Wildlife Sanctuary
29	**KARNATAKA**	01	Belgaum	10	01	Bangalore (Urban)
		02	Bagalkot	10	02	Bangalore (Rural)
		03	Bijapur	10	03	Bhagalkot
		04	Gulbarga	10	04	Bellary
		05	Bidar	10	05	Belgaum
		06	Raichur	10	06	Bhadravati
		07	Koppal	10	07	Bidar
		08	Gadag	10	08	Chickmaglur
		09	Dharwad	10	09	Chitradurga
		10	Uttara Kannada	11, 30% in 10, 15% in 13	10	Dharwad
		11	Haveri	10	11	Gadag
		12	Bellary	10	12	Gokak
		13	Chitradurga	10	13	Gulbanga
		14	Davanagere	10	14	Hassan
		15	Shimoga	10, 25% in 11	15	Haliyal
		16	Udupi	13, 30% in 11	16	Honnavar
		17	Chikmagalur	10, 25% in 11	17	Karwar
		18	Tumkur	10	18	Kolar
		19	Kolar	10, 25% in 12	19	Kollegal
		20	Bangalore	10	20	Koppa
		21	Bangalore (Rural)	10	21	Kundapur
		22	Mandya	10	22	Mandya
		23	Hassan	10	23	Mangalore
		24	Dakshina Kannada	13, 25% in 11	24	Madikeri
		25	Kodagu	11, 35% in 10	25	Mysore
		26	Mysore	10	26	Raichur
		27	Chamarajanagar	10, 40% in 12	27	Sagar
		28	Chikkaballapura		28	Shimoga
		29	Ramanagara		29	Sirsi
		30	Yadgir		30	Tumkur
					31	Yellapur
					32	Virajpet
					33	Hunsar
					34	Davnagere

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
					35	Koppal
					36	Haveri
					37	Bijapur
					38	Shimoga Social FD
					39	Shimoga WL Division
					40	Bellary Social FD
					41	Mysore Social FD
					42	Mysore WL Division
					43	Hunsur WL Division
					44	Ramanagara Forest Division
					45	Chikkaballapur Forest Division
					46	Bannerghatta National Park
					47	Bandipura Tiger National park
					48	Nagarhole Tiger Reserve/Nagarhole National Park
					49	Anshi Dhandeli Tiger Reserve/Kali Tiger Reserve
					50	Ranibennur Blackbuck Sanctuary
					51	Shettihalli Wildlife Sanctuary
					52	Cauvery Wildlife Sanctuary
					53	Male Mahadeshwara Wildlife Sanctuary
					54	Biligiri Ranga Temple Tiger Reserve
					55	Bhadra WLS/Tiger Reserve
					56	Kudremukh National Park
					57	Daroji WLS/Sloth Bear Sanctuary
					58	Pushpagiri WLS
					59	Yedgir
					60	Mookambika WLS
					61	Madikeri Wild life
					62	
					63	Jogimatti Wildlife Sanctuary
					64	Rangayyadurga Four Hored Antelope Wildlife Sanctuary
					65	Gudekote Sloth Bear Sanctuary
					66	Chincholi Wildlife Sanctuary
					67	Brahmagiri Wildlife Sanctuary
					62	Dandeli WL
30	**GOA**	01	North Goa	13	01	North Goa
		02	South Goa	13	02	South Goa
31	**LAKSHADWEEP**	01	Lakshadweep	13	01	Kavarathi
32	**KERALA**	01	Kasaragod	13, 25% in 11	01	Thiruvananthpuram
		02	Kannur	13	02	Punalur
		03	Wayanad	11	03	Thenmala
		04	Kozhikode	13	04	Achencoil
		05	Malappuram	13	05	Konni
		06	Palakkad	13, 20 in 11	06	Ranni
		07	Thrissur	13	07	Kottayam
		08	Ernakulam	13, 30% in 11	08	Munnar

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
		09	Idukki	11	09	Mankulam
		10	Kottayam	13, 15% in 11	10	Kothamangalam
		11	Alappuzha	13	11	Malayattoor
		12	Pathanamthitta	13, 40% in 11	12	Trissur
		13	Kollam	13, 20% in 11	13	Chalakkudy
		14	Thiruvananthapuram	13	14	Vazhachal
					15	Palakkadu
					16	Nenmara
					17	Mannar Kkadu
					18	Nilambar (North)
					19	Nilambar (South)
					20	Kozhikkode
					21	Wayanad (North)
					22	Wayanad (South)
					23	Kannur
					24	Kasargode
					25	25 Periyar (T.P) East
					26	Wayanad WLS
					27	Palakkad Social FD
					28	Kozhikode Social FD
					29	Kozhikode Timber Sales Division
					30	Marayoor Sandal Division
					31	Munnar WL Division
					32	Idukki WL Division
					33	Chimoney WL Sanctuary Division
					34	Peechi – Vazhani WL Division
					35	Field Director Project Tiger-Dy.Dir.(East)
					36	Field Director Project Tiger-Dy.Dir.(West)
					37	Field Director Project Tiger-Wildlife warden Idukki
					38	Field Director Project Tiger-Wildlife warden Munnar
					39	Marayar Sandal Division
					40	Munnar Territorial Division
					41	Timber Sales Division Thiruvanthapuram
					42	Timber Sales Division Punalur
					43	Thiruvanthapuram WL Division
					44	Perambalur TSD
					45	Silent Valley National Park
					46	Aralam WL
					47	Parambikulam
					48	Wayanad/Sulthab Bathery WL Division
					49	Periyar (T.P.) West FD
					50	Shendurney Wildlife Sanctuary
33	**TAMILNADU**	01	Tiruvallur	14	01	Chengalpattu
		02	Chennai	14	02	Vellore
		03	Kanchipuram	14	03	Tirupathur

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
		04	Vellore	12, 40% in 14	04	Tiruvannamalai
		05	Dharmapuri	12	05	Dharmapuri
		06	Triuvannamalai	14, 20% in 12	06	Hosur
		07	Villupuram	14	07	Harur
		08	Salem	12, 15% in 14	08	Villupuram
		09	Namakkal	12	09	Kallakurichi
		10	Erode	12	10	Salem
		11	Nilgiris	11	11	Attur
		12	Coimbatore	12, 15% in 11	12	Erode
		13	Dindigul	12	13	Sathyamangalam
		14	Karur	14, 42% in 12	14	Dindigul
		15	Triuchirappalli	14, 40% in 12	15	Kodaikanal
		16	Perambalur	14	16	Madurai
		17	Ariyalur	14	17	Theni
		18	Cuddalore	14	18	Tiruchy
		19	Nagapattinam	14	19	Thanjavur
		20	Triuvarur	14	20	Tirunelveli
		21	Thanjavur	14	21	Kanyakumari
		22	Pudukkottai	14	22	Coimbatore
		23	Sivaganga	14	23	Nilgiris North
		24	Madurai	14, 30% in 12	24	Nilgiris South
		25	Theni	12, 35% in 11	25	Gudalur
		26	Virudunagar	14	26	Sivaganga
		27	Ramanathapuram	14	27	Udalur
		28	Thoothukkudi	14	28	Cuddalore
		29	Tirunelveli	14, 20% in 11	29	SrivilliputhurWL Division
		30	Kanniyakumari	14, 30% in 11	30	Nangapattinam(WL)
		31	Krishnagiri		31	Pallachi(WL)
		32	Tiruppur		32	Kalakad – Mundanthurai Tiger Reserve (KMTR) - Ambasamudram
					33	KMTR – Kalakkadu
					34	Tirunelveli Social Forestry Division
					35	Salem Social Forestry (Interface) Division
					36	Mudumalai Tiger Reserve
					37	Perambalur
					38	Pudukottai
					39	Kalakkadu Mundanthurai WL Division
					40	Ramanathapuram FD
					41	Hasnur Forest Division
					42	Thoothukodi FD
					43	Anthiyur FD (Erode Distt.)
					44	Thiruvannamalai North FD
					45	Thiruvannamalai South FD
					46	Krishnagiri FD
					47	Namakkal
					48	Viruthachalam
					49	Thirukoyilur
					50	Tiruvallur
					51	Karur Forest Division

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
					52	Anamalai Tiger Reserve
34	**PONDICHERRY**	01	Yanam	14	01	Pondicherry
		02	Pondicherry	14		
		03	Mahe	13		
		04	Karaikal	14		
35	**A & N ISLANDS**	01	Andamans	14	01	Wimberly Ganj (SA)
		02	Nicobars	14	02	Baratang(or Raratang)
		03	South Andaman		03	Rangat (MA)
					04	Mayabandar
					05	Diglipur
					06	Hutbay (LA)
					07	Campbell bay (Nicobar)
					08	North Andaman
36	**TELANGANA**	01	Adilabad	10	01	Adilabad
		02	Nizamabad	10	02	Bellampally
		03	Karimnagar	10	03	Nirmal
		04	Medak	10	04	Kaghaznagar
		05	Hyderabad	10	05	Mancherial
		06	Rangareddi	10	06	JannaramWL Management Division
		07	Mahbubnagar	10, 20% in 12	07	Anantpur
		08	Nalgonda	10, 30% in 12	08	Chittoor (East)
		09	Warangal	10	09	Chittoor (West)
		10	Khammam	10, 20% in 12	10	Guntur
					11	Giddalur
					12	Nellore
					13	Markapur
					14	Kurnool
					15	Cudappa
					16	Produttur
					17	Nandyal
					18	Rajampet
					19	Atmakur
					20	Khammam
					21	Kothagudem
					22	Paloucha
					23	Bhadrachalam (North)
					24	Bhadrachalam (South)
					25	Nizamabad
					26	Kamareddy
					27	Medak
					28	Vishakapattanam
					29	Paderu
					30	Vizianagaram
					31	Srikakulam
					32	Narsipatnam
					33	Hydradad
					34	Nalgonda
					35	Mahbubnagar
					36	Achampet
					37	Kakinada

Code	Name of State/UT	Code	Name of District	Physiographic Zone Code	Code	Name of Division
					38	Eluru
					39	Vijaywada
					40	Warangal (North)
					41	Warangal (South)
					42	Karim Nagar (East)
					43	Karim Nagar (West)
					44	Rajamundri WLFD
					45	Ongole Social FD
					46	Karimnagar Social FD
					47	Srikakulam Social FD
					48	Hyderabad WL Division
					49	Amarabad Tiger Reserve
					50	Kawal Tiger Reserve
					51	Wild Life Management Warangal
					52	Siddipeth Forest Division
37	Laddakh	01	Leh	01	01	Leh
		02	Kargil	01		

Annexure – IV

Code for Mapsheets

The procedure to be adopted for coding the map sheet number (six digits) will be as explained hereinafter. Every map sheet 1:50,000 is given a number on top of the sheet. The first two digits of this sheet number are the Index Number the alphabet is the 'Degree Sheet Number' and the last remaining digit is the 1:50,000 SHEET NUMBER. When recording the map sheet code the first two number of the map sheet will be written as they appear on the map. The alphabet of the Degree Sheet number will have two digits and will be coded. The codes for the alphabets are given below (there are sixteen such alphabets). The last remaining number will be recorded in two digits.

Map Sheet No.	Code
A	01
B	02
C	03
D	04
E	05
F	06
G	07
H	08
I	09
J	10
K	11
L	12
M	13
N	14
O	15
P	16

Example : The map sheet No. 73 I/9 will be coded as '730909' and map sheet No. 43 K/16 as '431116'

Annexure-VII

List of Tree Species & their Codes

Note: 1. The plants which are identified upto Genera only but species is not identifiable should be put under group species of that Genera if code is provided.

2. The plants which cannot be identified upto Genera or species and plants which are not given code numbers should be put under following codes:

(i)	Unidentified trees/Miscellaneous	1999
(ii)	Identified and uncoded trees	2000
(iii)	Unidentified bamboos	2100
(iv)	Unidentifed canes	2150

Species Code	Botanical Name	Common/Local Names
0001	*Abies densa*	Fir
0002	*Abies pindrow*	Silver Fir, Tosh, Raga, Rainsal, Morinda
0003	*Abies smithiana (also in 0921)*	Spruce, Rai
0004	*Abies spectabilis*	Rainsal, Morinda
0005	*Acacia arabica/Acacia nilotica*	Babul, Kikar, Bawar, Bawal
0006	*Acacia auriculiformis*	Akasmani, Sona jhuri,Australian Babul
0007	*Acacia catechu/Acacia polyacantha*	Khair, Velsundra,Hiwar
0008	*Acacia eburnea*	Udaivel, Kaludai
0009	*Acacia ferruginea*	Velsundra, Vel., Subsam, Babar, Soukhar, Konp
0010	*Acacia horrida/Acacia latronum*	Hottejali,Bher
0011	*Acacia lenticularis*	Safed babul, Amiar, Kanti, Gohira,Hiwar
0012	*Acacia melanoxylon*	
0013	*Acacia pennata*	
0014	*Acacia planifrons*	Dontari
0015	*Acacia suma*	Sundra, Khair, Sai Kanta, Kumtia, White acacia Sonkhairi
0016	*Acacia chundra/Acacia sundra*	Umbrellathorn, Sali, Odei, Solei
0017	*Acacia tortilis*	Mulvara, Barnei, Muglimara
0018	*Acacia totahu*	
0019	*Acer acuminatum*	Kainchli, Kamia, Kanjal, Kainjal, Kamia, Marik, Maple
0020	*Acer campbellii*	Kapasi
0021	*Acer laevigatum*	Kapasi, Putli
0022	*Acer niveum*	

Species Code	Botanical Name	Common/Local Names
0023	*Acer oblongum*	Phisphuri, Kimolo, Kirmola
0024	*Acer cappadocicum/Acer pictum*	
0025	*Acer species.*	Gadha, Papri, Manesatiru, Kainchji, Titru, Mandraputi, Maple, Kainjal
0026	*Acrocarpus fraxinifolius*	Kuragaon, Kurangatti, Mandhani, Balanji, Kurangam
0027	*Acronychia pedunculata/ Acronychia laurifolia*	
0028	*Actinodaphne angustifolia*	
0029	*Actinodaphne hookeri*	Pisa
0030	*Actinodaphne sikkimensis*	Sissi
0031	*Adenanthera pavonina*	Yewagyi
0032	*Adhatoda vasica*	Adusoga
0033	*Adina cordifolia/Haldin cordifolia*	Haldu, Haladva, Hedu, Taraksopa, Maja, Kadambu, Arasintega, Bandar,Kadambi
0034	*Adina oligacephala/ Khasia culnea oligocephla*	Haldu, Haludchapa
0035	*Neonauclea sessilifolia/Adina sessilifolia*	Heludehaki
0036	*Ardisia solanacea/Ardisia floribunda (also in 0096)*	
0037	*Aegle marmelos*	Bel, Billi, Bil, Belpatra, Belphas
0038	*Aesculus indica*	Himalayan horse chestunut, Panger
0039	*Aesculus assamica/Aesculus punduana*	
0040	*Aglaia andamanica*	Letuk
0041	*Aglaia edulis*	Manai, Letchu
0042	*Aglaia maiee*	Santhane viri, Vandakamin
0043	*Aglaia exrtipulata/ Aglaia minutiflora*	Thevathali
0044	*Aglaia elaeagnoidea/ Aglaia roxburghiana*	Chokhala, Punyaya, Kalbendek
0045	*Ailanthus altissima*	Borpat, Swinde
0046	*Ailanthus excelsa*	Maharukh, Ardusa, Butazod, Arru, Mahalimla, Peddamman, Dhella,Nar,Mahanim
0047	*Ailanthus tryphas (Ailanthus malabarica)*	
0048	*Alangium salvifolium/Alangium lamarckii (also in 0409)*	Lueki, Ansoroli, Ankola, Nirmulei
0049		
0050	*Albizia amara*	Tugle
0051	*Albizia chinensis/Albizia stipulata*	Bombeza,A.Avara
0052	*Albizia julibrissin*	Sirse

Species Code	Botanical Name	Common/Local Names
0053	*Albizia lebbek*	Kala Siris, Bhander, Sarsaoda, Koko, Kalbage
0054	*Albizia lucidior*	Maj, Sundi
0055	*Albizia mollis*	Sirsa, Kunera, Mandehar
0056	*Albizia odoratissima*	Siris, Pullivage, Nellivega, Hiharu, Bilwara, Chamkoroi
0057	*Albizia procera*	Safed Siris, Garkhai, Jantala, Koroi, Kinai
0058	*Albizia sp.*	Hiharu, Moroi, Mog, Kako, Sundi, Pujala,Siris
0059	*Michelia cathcartii/ Alcimandra catheartii*	
0060	*Alnus nepalensis*	Utis
0061	*Alnus nitida*	Kunis
0062	*Alnus sp.*	Utis, Kunis
0063	*Alphonsea ventricosa*	Paknola, Nagakola
0064	*Alphonsea zeylanica*	
0065	*Alpinia galanga*	Duperasme, Greater Galngal
0066	*Alseodaphne semecarpifolia*	Mase, Mashe, Phudgus, Melheve
0067	*Alseodaphne sp.*	Qwdenii
0068	*Alstonia scholaris*	Chatidu, Chatiwan, Satwin, Chatim, Pala, Chatuin, Chhatyal, Chaitan, Cheeni, Pale, Satiama
0069	*Altingia excelsa*	Jutali
0070	*Aglaia jainii/ Amoora canarana*	Hottenola
0071	*Amoora obleona*	
0072	*Amoora sp.*	Rath, Bordardime
0073	*Aglaia spectobilis/Amoora wallichii/Aglaia hiernii*	Lali, Lakhini, Amari
0074	*Anacardium occidentale*	Kaju,Gar,Cashu
0075	*Anacolosa densiflora*	Maiadi, Kalamanikkam, Moradi, Malambara
0076	*Andromeda elliptica*	Angesi
0077	*Anisoptera scaphula*	
0078	*Anneslea fragrans*	
0079	*Annona squamosa*	Seethapal,Setha
0080	*Anogeissus acuminata*	Phasi
0081	*Anogeissus latifolia*	Dhauda, Dhaura, Bakli, Tirman, Vekkali, Dhanda, Damado
0082	*Anogeissus pendula*	Dhauk,Kardai
0083	*Anthocephalus chinensis/ Anthocephalus cadamba*	Kadamb, Attutek, Kodavara, Kadam, Vellaikadamby
0084	*Antiaris toxicaria*	Arunjellia, Marauri, Junglia, Lakuch,

Species Code	Botanical Name	Common/Local Names
		Aranji
0085	*Antidesma bunius*	
0086	*Antidesma acidum/Antidesma diandrum*	Halimajjige
0087	*Antidesma menasu*	Naikuttimari
0088	*Aphanamixis polystachya/ Amoora rohituka(also in 0089)*	
0089	*Aphnamixis polystachya (also in 0088)*	Karagil
0090	*Codiocarpus andamanicum/ Apodytes andamanica*	
0091	*Apodytes dimidiata/Apodytes beddomei*	
0092	*Aporosa acuminate*	Nirvetti
0093	*Aporosa lindleyana*	Chella, Sali,Vati
0094	*Aporosa octandra/Aporosa roxburghii*	Carokht, Chapnole
0095	*Aquilaria agallocha*	Agar, Diang
0096	*Ardisia floribunda(also in 0036)*	
0097	*Areca catechu*	Adike, Supari
0098	*Areca triandra*	Jangli supari
0099	*Arenga wightii*	Dada salai
0100	*Artabotrys hexapetalus/Artabotrys odoratissimus*	Kathalichapa
0101	*Artocarpus chama/Artocarpus chaplasha*	Chemal, Champ, Sam, Tongpeing
0102	*Artocarpus gomezianeus*	Kala lakuch
0103	*Artocarpus integrifolia/Artocarpus heterophyllus*	Plavu/Phannan, Kathal, Jack fruit, Fanas,Alsu
0104	*Artocarpus hirsuta*	Aini, Ayani, Patphanas, Ramphanas
0105	*Artocarpus lacucha*	Lakooch, Thellipilavu, Bohat, Dowachali, Pulinchekke, Watamb
0106	*Thamnocalamus spathiflorus*	Ringal
0107	*Arytera littoralis*	
0108	*Taraktogenos macrocarpa/ Asteriastigma macrocarpa*	
0109	*Atalantia monophylla*	Kadunimbe
0110	*Atalantia racemosa*	Kod-Kanchi
0111	*Atalantia spinosa*	
0112	*Averrhoa carambola*	
0113	*Avicennia officinalis*	Thame
0114	*Azadirachta indica*	Neem, Nibbaro, Nimdo, Vepa maram
0115	*Acacia mearnsii*	Wattel, Sagar

Species Code	Botanical Name	Common/Local Names
0116	*Acacia sp.*	Oda, Odal, Ouli, Ramkati babul
0117	*Aconitum ferox*	
0118	*Acontium bisma/Acontium palmatum*	
0119	*Acontium sp.*	
0120	*Allium wallichii*	
0121	*Avicennia marina*	Kala Bain
0122	*Acacia mangium*	
0123	*Agrostistachys longifolia*	
0124	*Avicennia alba*	Piara Bain
0125	*Baccaurea courtallensis*	
0126	*Baccaurea sapida*	Pauli, Khataphal
0127	*Bagenlia serrata*	
0128	*Balanites aegyptiaca*	Hingota
0129	*Balanocarpus litelis*	Kharkong
0130	*Balsamodendron caudata*	Kondamavu, Kilve, Nilve, Kondamamidi
0131	*Balsamodendron mukul*	Gugal
0132	*Baliospermum micranthum*	
0133	*Barringtonia acutangula*	Pani kusum, Hanjala, Hijal, Sumudra or Datta phal
0134	*Barringtonia sp.*	Hijal, Nivar
0135	*Bassia butyracea*	Chewri
0136	*Bassia malabarica*	Yanachi
0137	*Bauhinia lawii*	Basavanapada
0138	*Bauhinia malabarica*	Amta, Arampuli, Amli, Kanchilwalla
0139	*Bauhinia purpurea*	Kachna, Chameli, Pasau
0140	*Bauhinia racemosa*	Apta, Asotri, Asintro, Basuvanapada ari
0141	*Bauhinia variegata*	Sahra, Kachnar, Kachan
0142	*Bauhinia sp.*	Kachanar, Papri, Jhingora, Kuiral, Guayal, Kanol, Kawaral, Kanadian, Knola, Semal
0143	*Bauhinia vahlii*	Basavanapada balli,Sayari
0144	*Beilschmiedia assamica/ brandissi*	Amsoi, Laluk, Bangolokai
0145	*Beilschmiedia roxburghiana*	Katti
0146	*Beilschmiedia sikkimensis*	Tarsing
0147	*Balanites aegyptiaca*	
0148	*Benthamidia capitata*	Bamora, Tankoi
0149	*Mahonia napaulensis/Berberis nepalensis*	Chutra, Kesari,Chotra
0150	*Berberis angulosa*	
0151	*Berrya ammonilla*	
~~0152~~	~~*Betiaspermum meirantha*~~	
0153	*Betula alnoides*	Birch, Chambar, Payyan, Kathboj
0154	*Betula cylindrostachys*	Saur

Species Code	Botanical Name	Common/Local Names
0155	*Betula utilis*	Bhojpatra, Birch
0156	*Bischofia javanica*	Kaen, Pansemal, Nira, Jrium, Thirippa, Theejia, Charakali, Nedi,Kanjal
0157	*Boehmeria sp.*	Genthi, Bora, Kharga, Biomat, Bimoe
0158	*Bombax ceiba/Salmalia malabarica*	Semal, Sawar, Semer, Simul, Shimola, Elavo, Buruga
0159	*Borassus flabellifer*	Tar/Tad, Palm
0160	*Boswellia serrata*	Salai, Salar, Gugal, Salasi, Anduk,Guggar
~~0161~~	~~*Bouca burmica*~~	deleted
0162	*Brassaiopsis mitis*	Chuletro or phuta, Chinday (Sikkim)
0163	*Brassaiopsis speciosa*	
0164	*Bridelia verrucosa*	Gaya
0165	*Bridelia retusa*	Kasai, Kag, Khaja, Asan, Asana, Ashal, Mukkayini, Mulluvenga, Kuhir, Kutgi, Gowigi, Mullumaddi, Katak
~~0166~~	~~*Bridelia sonemess*~~ *Bridelia stipularis/scanders/scandens*	~~Mulla honne~~
~~0167~~	~~*Broxgentia wallichi*~~	~~Niruateberu, Chkrani, Beru, Nirssgni~~
0168	*Bruguiera sp.*	Khair, Lakir
0169	*Buchanania angustifolia/ axillaris*	Keradi
0170	*Buchanania lanzan/latifolia*	Achar, Chironji, Char, Muria, Phathbhilawa, Pista, Pial, Charolia, Mora, Mungapira, Chera
0171	*Buddleja sp.*	Shimsenpat
0172	*Bursera serrata(also in 0963)*	Bursera, Levendar
0173	*Butea monosperma/Butea frondosa*	Palas, Kakhar, Khakhara, Palasin, Samatha, Dhak, Sumortha
0174		Papri,Kanghi
0175	*Buxus wallichiana/ Buxus sempervirens*	Papri, Chikri, Kangi, Boxwood
0176	*Bergeria ciliata*	
0177	*Madhuca longifolia/Bassia longifolia*	
0178	*Bassia latifolia/Madhuca latifolia (also in 0759)*	
0179	*Bruguiera cylindrica*	(mangrove spp)
0180	*Bruguiera gymnorrhiza*	Kankra (mangrove spp)
0181	*Beilschmiedia wightii*	
0182	*Bridelia horrid/scleroeyrum pentadrum*	
0183	*Broussonetia papyrifera*	
0184	*Bridelia montana*	
0185	*Baliospermum mantanum*	

Species Code	Botanical Name	Common/Local Names
0186	*Caesalpinia bonduc*	Gijjaga, Garige,Kachka
0187	*Caesalpinia coriaria*	Divi-Divi,Sumkaffi
0188	*Caesalpinia pulcherrima(also in 0511)*	Krishna-chura
0189	*Callicarpa arborea*	Bahmala, Bahari, Kumbhar (Korta bowl), Gobarhata Maksi
0190	*Callicarpa lanata*	Tawadatti
0191	*Callicarpa longifolia*	
0192	*Callicarpa macrophylla*	Fulvijhe,Daia
0193	*Calophyllum polyanthus/ Calophyllum elatum*	Kattapinna
0194	*Calophyllum inophyllum*	Poon, Undi
0195	*Calophyllum polyanthum*	Kurta
0196	*Calophyllum soulattri/ Calophyllum spectabile*	Poon
0197	*Calophyllum tetrapterum*	Trai, Bobbi
0198	*Calophyllum apetalum/ Calophyllum wightianum*	Kalpoone, Irai
0199	*Camellia sinensis*	Tea
0200	*Camellia thea*	Tea plant,Cha,Chah
0201	*Canarium bengalense*	Dhup
0202	*Canarium euphyllum*	White Dhup
0203	*Canarium sikkimense*	Gokul Dhup, Dhuna, Dhunarata,Dhupa
0204	*Canarium strictum/Canarium reziniferum*	Thellim, Payin, Kuthrikka, Doopamara
0205	*Canthium dicoecum (Old) Carallia integerrima*	Balasua, Nallababusu
0206	*Canthium didymum*	Bilachi heddarane
0207	*Canthium neilgherrense*	Belachi, Woppe
0208	*Canthium parviflorum*	Heddarve
0209	*Canthium pergracile*	Meleammepannu
0210	*Capparis decidua*	Karil
0211	*Cassine species*	
0212	*Capparis grandis*	Torate, Kauntel
0213	*Carallia integerrima/Carallia brachiata*	Mahithekerh, Bangana, Phanshi
0214	*Carallia indica*	Varanga, Valovam
0215	*Careya arborea*	Kumbhi
0216	*Careya nepalensis*	
0217	*Carissa carandas*	Kalbli, Kawli, Garchunakai,Karaunda
0218	*Carpinus viminea*	Cham, Khirk, Khirki
0219	*Caryota urens*	Sulphi, Sagapalm, Bherlimad Fish tail palm

Species Code	Botanical Name	Common/Local Names
0220	*Caseari carcandus*	
0221	*Casearia esculenta*	Pannimurunga
0222	*Casearia graveolens*	Gilchi, Dedak, Manja, Mango, Bokada
0223	*Casearia rubescens*	
0224	*Casearia sp.*	
0225	*Casearia tomentosa/Casearia elliptica*	Gilchi, Dhola, Umbh, Kirrniro, Chilla, Mera, Phempri, Mallampavatta
0226	*Cassia fistula*	Amaltas, Sonari, Bahra, Bhawa, Garmala, Kirola, Konna, Kakke
0227	*Cassia nodosa*	Sonari
0228	*Cassia occidentalis*	Anechagate
0229	*Cassia siamea*	Minjiri, Nellatangedu,Chakunda,Kasid
0230	*Cassia tomentosa*	Sillangi, Killangi
0231	*Cassia tora*	Tagate
0232	*Cassia auriculata*	Taravada, Avarkay, Tangadi
0233	*Castanopsis armata*	
0234	*Castanopsis hystrix/ tribuloides*	Katnoj, Kaloni, Kotani
0235	*Castanopsis indica*	Hingori
0236	*Castanopsis javanica*	
0237	*Castanopsis sp.*	Hingori
0238	*Casuarina equisetifolia*	Saru
0239	*Cedrela febrifuga/Toona tebrifiga*	Lekh toon
0240	*Toona ciliata/ Cedrela toona*	Tun, Darli, Darloi, Dal, Mathagiri, Vedi, Vembu, Malavepa, Noga, Chonagil, Jatipoma, Poma
0241	*Cedrus deodara*	Depdar, Dayar, Devadaru,Deodar
0242	*Ceiba pentandra/Toona febrifuga (Eriodendron anfractuosum)*	Seemeburga, Silk cotton, Seauel
0243	*Celtis australis*	Kharik
0244	*Cephalanthus occidentalis*	Kalikat
0245	*Cephalostachyum fuchsianum*	
0246	*Cephalostachyum latifolium*	
0247	*Cephalostachyum pallidum*	
0248	*Cephalostachyum pergracile*	
0249	*Chuckrassia tabularis/ Chuckrassia vefutina*	Chikrasi, Veppu, Karadi keta, Bogipoma, Mala
0250	*Chloroxylon swietenia*	Bhirra, Satin
0251	*Chrysophyllum roxburghii*	Palepannu
0252	*Cinnamomum cecicodaphne*	Gonsoroi
0253	*Cinnamomum impressinervium*	Sissi
0254	*Cinnamomum iners*	Kankutala, Kankula
0255	*Cinnamomum oblongifolium*	
0256	*Cinnamomum obtusifolium*	Meduriduma, Paderi, Tozia, Nagalarhira,

Species Code	Botanical Name	Common/Local Names
		Patihunda
0257	*Cinnamomum sp.*	Mahidal, Gonsordi, Dalchini
0258	*Cinnamomum tamala*	Dalchini, Tejpat
0259	*Cinnamomum wightianum/ zeylanicum*	Naikambagam, Karpamara,Sombala
0260	*Cipadessa baccifera (Cipadessa fruticosa)*	Chitumba, Sidugoli
0261	*Citrus maxima/Citrus grandis*	Batabi nebu, Pummelo
0262	*Citrus latipes/Citrus hystrix*	
0263	*Citrus medica*	Elmichai
0264	*Citrus sinensis*	Mausmi
0265	*Citrus sp.*	Lemon, Nimbu
0266	*Clausena anisata/Clausena dentata*	Barpe,Poti
0267	*Cleidion javanicum*	Yellari
0268	*Cleistanthus collinus*	Karra, Nallkodigha
0269	*Clerodendrum viscosum*	Kacungyi
0270	*Clochidion assamicum*	Latimanwa
0271	*Cocculus laurifolius*	Tilaphara
0272	*Cochlospermum religiosum*	Galgal, Derani, Jerani, Kendo gogu
0273	*Cochlospermum tomentosum*	
0274	*Cocos nucifera*	Narkel, Naryal, Coconut Tree
0275	*Colubrina asiatica*	Vira
0276	*Columbia floribunda*	
0277	*Commiphora mukul/wightii*	
0278	*Commiphora caudata*	
0279	*Congea tomentosa*	
0280	*Cordia angustifolia*	
0281	*Cordia campanulata*	
0282	*Cordia dichotoma (Old) Cordia obliqua*	Gundi, Samar, Bhokar,Lassora,Lessor
0283	*Cordia dichtoner*	
0284	*Cordia fragrantissima*	Kowathutii
0285	*Cordia gharaf*	Gondi
0286	*Cordia grandis*	Thanet
0287	*Cordia macleodii*	Hadage, Dharivar, Satare, Pilichelle, Dahivan
0288	*Cordia myxa*	Mahidal, Bowll, Bhokar, Boal, Semri, Shelu
0289	*Cordia odoratissima*	
0290	*Cordia sp.*	Lassora, Bairula, Borala
0291	*Cordia tomentosa*	
0292	*Cornifora caudateCommiphora caudata*	Kondamavu, Aswai, Pachakilurai

Species Code	Botanical Name	Common/Local Names
0293	*Cornus macrophylla*	Khagsa, Khasri, Khugsi
0294	*Corylus colurna*	Bhutiabadam, Kapasi, Bhuj
0295	*Corylus ferox*	Lekh katus
0296	*Corypha umbraculifera*	Tale
0297	*Coscinium fenestratum*	Meramenjali
0298	*Cotoneaster bacillaris*	Ruins
0299	*Crateva adansonii sp.*	Odora
0300	*Crataeva unilocularis* *(Old) Crataeva religiosa/ roxburghii*	Gundi, Barun, Barna
0301	*Cratoxylum formosum*	Yepadak
0302	*Cratoxylum neriifolium*	
0303	*Croton joufra*	
0304	*Croton malabaricus*	Kolvachi
0305	*Croton oblongifolius*	Kanki
0306	*Croton tiglium*	Lapcho
0307	*Cryptocarya wightiana*	Kadamanpari
0308	*Crypomeria japonica*	
0309	*Crypteronia paniculata/gabra*	Garumarh
0310	*Cryptocarya amygdalina*	Bonlonalus
0311	*Cullenia excelsa*	Karanini
0312	*Cupressus cashmiriana*	
0313	*Cupressus sp.*	
0314	*Cupressus torulosa*	Cupress, Devidiar, Leuri, Surai, Samrani
0315	*Curcuma aromatica*	Kadarshina
0316	*Cycas circinalis*	Madana kamarin, Sanning kai, Erigei, Nalvalanga, Kalarei intha, Kalanga
0317	*Cycas pectinata*	Thakai
0318	*Drypetes assamica/ Cyclostemon assamica*	Rali
0319	*Drypetes longifolia/Cyclostomon marcrophyllus*	Mala payin
0320	*Cynometra beddomei*	Irapu
0321	*Maniltoa polyandra/Cynometra polyandra(also in 0777)*	Ping
0322	*Callicarpa tomentosa*	
0323	*Cupressus macrocarpa*	Samrani
0324	*Celtis wightii*	
0325	*Callicarpa sp.*	
0326	*Callistemon lanceolatus/citrinus (Metrosideros citrina/Melaleuca citrina ??)*	Bottle brush
0327	*Callistemon viminalis*	Bottle brush
0328	*Castanospermum australe*	

Species Code	Botanical Name	Common/Local Names
0329	*Ceriops decandra*	(mangrove spp)
0330	*Ceriops tagal*	Goran (mangrove spp)
0331	*Cyathocalyx zeylanica*	
0332	*Daemonorops jenkinsiana*	
0333	*Dalbergia latifolia*	Sissam, Veetti, Eetti, kareetti, Jitregi, Biti, Shisham
0334	*Dalbergia paniculata*	Dhobin, Padri, Patarali, Naibiti, Khobi, Sapperra
0335	*Dalbergia sissoo*	Sissoo, Shisham, Tahli
0336	*Dalbergia sp.*	Bandmi
0337	*Dalium travencoricum*Dialium travancoricum	Malampuli
0338	*Dracontomelum mangiferum*	Chinyok
0339	*Debregeasia wallichiana*	Sunkathi, Sankeswari
0340	*Delonix elata*	
0341	*Delonix regia*	Golmohan/Krishnachura
0342	*Daphniphyllum himalayense*	Ratniali, Rakta chandan
0343	*Dichopsis elliptica*	Panchonta, Ketellupei, Illupei, Pala, Keipales
0344	*Dichrostachys cinerea*	Yettur, Yletur
0345		
0346	*Dillenia indica*	Owtenga
0347	*Dillenia pentagyna*	Karmat, Kerju, Karvat, Karaval, Kathak, Zindyum, Modapana, Pattippana, Valappana, Otenga, Karambel, Karamble,Nelge, Kangal
0348	*Diospyros assimilis*	Karimara
0349	*Diospyros candolleana*	Kerigide, Karimitka
0350	*Diospyros chloroxylon*	Illintha
0351	*Diospyros crumentata*	Kantumri
0352	*Diospyros marmorata/malabarica*	Marblewood
0353	*Diospyros melanoxylon*	Tendu, Kendu, Timru, Abhus, Timbaroo
0354	*Diospyros microphylla/buxifolia (Leucoxylum buxifolium)*	Chunde
0355	*Diospyros nilagirica*	Kartha, Choote
0356	*Diospyros obenum*	Ebony, Karu, Mushtimbi
0357	*Diospyros paniculata*	Kari-Koomar-Karmarala
0358	Diospyros peregrina *(Old) Diospyros embryopteris sylvatica/sontana/ceubroypteris*	Madad tendu, Kakchi, Honeymoontree, GoindaJagalgonti
0359	*Diospyros sp.*	Kendu, Kala kendu, Tendu
0360	*Diospyros tupru*	Tupra
0361	*Diospyros variegata*	

Species Code	Botanical Name	Common/Local Names
0362	*Diploknema butyracea/Madhuca butyracea/Bassia butyracea*	Raktchena, Danchura, Mohwa
0363	*Dipterocarpus bourdilloni*	Karanjili, Charatta angeli
0364	*Dipterocarpus gracilis (Old)*	
0365	*Dipterocarpus indicus*	Kalapayin, Vellanini, Kalpaini,Kaipad
0366	*Dipterocarpus macrocarpus/ Pterocarpus macrocarpus*	Hollong
0367	*Dipterocarpus* sp.	
0368	*Dipterocarpus tuberculatus*	Medsingh
0369	*Dipterocarpus turbinatus*	Garjan
0370	*Dolichandrone crispa*	Godmurgi
0371	*Dolichandrone falcate*	Metarsingh, Medhasingi waddi
0372	*Drimycarpus recemosus*	
0373	*Drypetes lancifolia*	Haro
0374	*Duabanga grandiflora*	Khakan, Mau, Lampate
0375	*Dysoxylum beddomei*	Adanthei
0376	*Dysoxylum binectariferum*	Rata, Bandardima
0377	*Dysoxylum alliarium/Dysoxylum hamiltonii*	Gendhaki poma, Rannipoma
0378	*Dysoxylum malabaricum*	Agie, Vella
0379	*Dysoxylum sp.*	Lahsune
0380	*Daphniphyllum* glaucescens	
0381	*Daphniphyllum neilgherrense*	Mir kakke
0382	*Drypetes wightii/Hemicylia wightii*	
0383	*Desmos chinensis*	Unona discolor
0384	*Desmodium triquetrum*	
0385	*Dypsis lutescens*	
0386	*Dendrophthoe falcato*	
0387		
0388		
0389		
0390	*Echinocarpus dasycarpus(Old)/ Sloanea dasycarpa (also in 1102)*	Gobra,Seta,Binder
0391	*Ehretia acuminata*	Gaul
0392	*Ehretia laevis*	Chamror, Khoba, Datrang
0393	*Eugenia arnottiana*	Naval, Ayri
0394	*Elaeagnus kologa*	Wild olive tree
0395	*Elaeagnus umbellata*	Giwain, Giwai
0396	*Elaeocarpus cuneatus*	Bigadamara
0397	*Elaeocarpus lanceifolius*	
0398	*Elaeocarpus munroii*	Narebekki, Kalbikki, Badaga
0399	*Elaeocarpus oblongus*	Analthari, Bikki maram

Species Code	Botanical Name	Common/Local Names
0400	*Elaeocarpus rugosus*	Panmaku
0401	*Elaeocarpus serratus*	Athkusye, Athakunge
0402	*Elaeocarpus sp.*	
0403	Elaeocarpus sphaericus *(Elaeocarpus ganitrus)*	Rudharakshi
0404	*Elaeocarpus tuberculatus*	Magara, Kodavasi, Lampathi
0405	*Elaeocarpus varunua*	
0406	*Cassine glauca/Elaeodendron glaucum/albens*	Jamrasi, Kalmukho, Dhebri, Loonia, Sauri, Neridu
0407	*Elaeodendron paniculata/ Cassine paniculata*	Purali
0408	*Elaeodendron roxburghii*	Mirandu,Padrium,Bakra,Jamrassi,Janva
0409	*Alangium lamarckii (also in 0048)*	
0410	*Emblica officinalis/ Phyllanthus emblica*	Amla, Aonla, Amlaki, Nellimaram, Nelli, Amloki
0411	*Endospermum chinense (Old) Endospermum malaccense*	Bakota, Phulgamani, Tarua Bakola, Halundrahakj, Handospoka
0412		Godhmohinia, Mohwia
0413	*Engelhardtia spicata/integra/ Engelhardtia colebrookiana*	Mewa, Mauwa
0414	*Enterolobium saman*	Raintree
0415	*Erinocarpus nimmoanus/nimmoni*	Andari-Bendi
0416	*Eriobotrya bengalensis*	
0417	*Eriobotrya petiolata*	Maya
0418	*Erioglossum rubiginosa*	
0419	*Eriolaena candollei*	
0420	*Eriolaena hookeriana*	Guakasi, Narbothu
0421	*Eriolaena quinquel ocularis*	
0422	*Eriolaena spectabilis*	
0423	*Erythrina sp.*	Mandan,Pariwela
0424	*Erythrina stricta*	Ilalivane, Keechakenanara
0425	*Erythrina suberosa*	Pangra, Gararo, Mander, Dhaul, Dhak
0426	*Erythrina variegata (Old) Erythrina indica*	Pangra, Pangaro, Pengaro, Mendo
0427	*Erythroxylun monogynum*	Deodari,Shimara
0428	*Eucalyptus citriodora*	Nilgiri
0429	*Eucalyptus globulus*	Blue gum
0430	*Eucalyptus grandis*	Nilgiri
0431	*Eucalyptus hybrid*	Nilgiri
0432	*Eucalyptus rostrata*	Red gum
0433	*Eucalyptus sp.*	Nilgiri,Thadya,Thallawara
0434	*Eucalyptus tereticornis*	Nilgiri hybrid
0435	*Sygygium alternifolia/Eugenia*	Manchi, Moyadi, Mogi, Mege

Species Code	Botanical Name	Common/Local Names
	alternifolia	
0436	*Eugenia corymbosa*	Nyara
0437	*Syzygium caryophyllatum/ Eugenia caryophyllatum*	Kunti-Neeral
0438	*Syzygium syzygioides/Eugenia cymosa (also in 1143)*	Jam, Tita, Nerudu
0439	*Syzygium formusum/Eugenia formosa*	Ambake
0440	*Syzygium venosum/Eugenia frondosa*	Dhubka
0441	*Syzygium gardener/Eugenia gardneri (also in 1137)*	Maleherlu
0442	*Eugenia grandis*	Jia
0443	*Syzygiumhemisphericum/ Eugenia hemispherica*	Jabbalae
0444	*Syzygium leatum/Eugenia laeta*	Madle
0445	*Syzygiumfamilnadensis/ Eugenia montana*	Poriyil
0446	*Syzygiummundagam/Eugenia mundagam*	Kattasamba, Mudagam
0447	*Eugenia praecox* *(Old) Jambosa praecox*	Bogi-jaruk
0448	*Eugenia sp.*	Nerala, naga, javal, Niralu
0449	*Syzygium zeylanicum/Eugenia zeylanica (also in 1145)*	Meerongi, Pitkuli, Bhodas
0450	*Euonymus dichotomus*	Kenkutle
0451	*Enamymus fimbriatus/ Euonymus lacerus*	Pinna, Dhyar
0452	*Euonymus pendulus*	Katha, Konkon, Katli, Kapkan
0453	*Euphorbia antiquorum*	Bonthekalli, Mundugalli
0454	*Euphorbia royleana*	Thoar
0455	*Euphorbia sp.*	Sil
0456	*Euphoria longana (also in 0848)*	Kattasamba, Mudagam, Kana, Kindali, Kendale Chakotta, Sannale, Koomathi, Bonlicha
0457	*Eurya japonica*	Jhingri
0458	*Tetradium fraxinifolium/Evodia fraxinifolis*	
0459	*Melicope lunu-ankenda/Euodia lunu-ankenda/Evodia roxburghiana*	Kambli, Chattavamara
0460	*Tetradium glabrifolium/Evodia meliaefolia*	Khanakpa
0461	*Evodia sp.*	Kannlei, Dapper, Kattashambagan

Species Code	Botanical Name	Common/Local Names
0462	*Excoecaria agallocha*	Tayaw, Genwa
0463	*Eriodendron anfractuosum/Bombax pentandrum/Ceiba pentandra*	
0464	*Euonymus indicus*	
0465	*Eclipta prostrata*	
0466	*Enterolobiuum cyclocarpum*	
0467		
0468		
0469		
0470		
0471		
0472		
0473	*Zanthoxylum retsa /Fagara budrunga (also in 1285)*	Bojrong, Bojorani
0474	*Limonia acidissima/Feronia elephantum(also in 0705)*	Kaweet, Kaitha
0475	*Feronia limonia*	Balnvalgida
0476	*Ficus asperrima*	Gargatti, Kharwatti
0477	*Ficus benghalensis*	Figs, Wad,Bargad, Alamaram
0478	*Ficus callosa*	Nirvala
0479	*Ficus carica*	Common fig, Dumur
0480	*Ficus semicordata (Ficus cunia) (also in 0487)*	Jog dumur
0481	*Ficus drupacea (Ficus mysorensis)*	Genimere, Colicare
0482	*Ficus elastica*	Ved, Vadlo
0483	*Ficus hispida*	Khakhri, Pipri, Tel, Umerdo, Kharodi
0484	*Ficus nervosa*	Khaipan, Kharipan
0485	*Ficus rticula (Ficus glomerata)*	Atti, Rumdi, Atthi, Gular, Umrao
0486	*Ficus religiosa*	Pipal, Pipli, Papada, Pripari, Ragi, Pimpal, Arasa Maram
0487	*Ficus semicordata(also in 0480)*	
0488	*Ficus sp.*	Gular, Anjar, Aumbar, Umerao, Bad, Kheura, Khomnia, Budita, Gaujine, Tungla, Bargad, Akhar, Pair,Atlla,Gani
0489	*Ficus tsiela*	Bilibasari
0490		
0491	*Ficus virens (Ficus infectoria)*	Basarimare, Karibasari,Barri
0492	*Filicium decipiens*	Niroli, Valmurricha, Irim-birakki
0493	*Firmiana colorata*	Phirphire

Species Code	Botanical Name	Common/Local Names
0494	*Flacourtia jangomas (Flacourtia cataphracta)*	Vayankarei charalu, Vayoenkatha thalira, Kanaji
0495	*Flacourtia indica/ Flacourtia ramontchi*	Kangu, Kakai
0496	*Flacourtia montana*	Sompi, Bensapige, Gudda, Champhar
0497	*Flacourtia sp.*	Kangukandai
0498	*Flueggia mirocarpa*	Huligida
0499	*Fraxinus floribunda*	Angan,Angou,Dakkuri,Tahasi
0500	*Fraxinus sp.*	Ash, Angu
0501	*Ficus mollis/tomentosa*	
0502	*Ficus benjamina*	
0503		
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0508		
0509		
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0511	*Caesalpinia pulcherrima (also in 0188)*	Radhachura
0512	*Gamblea ciliata*	
0513	*Gaultheria fragrantissima*	Winter green oil tree, Moolai
0514	*Garcinia gummi-gutta/Garcinia cambogia*	Kudgelmurga
0515	*Garcinia cowa*	
0516	*Garcinia pedunculata*	Bonthekora
0517	*Garcinia indica*	Muriyia, Kokam, Bhirand,Kokum
0518	*Garcinia rticulat/Garcinia morella*	Arsingurge
0519	*Garcinia sp.*	Ponpuli,Pullmeram(kudo)
0520	*Garcinia spicata*	Haraluguriga, Kenjeraka, Kokokattai
0521	*Garcinia pictoria*	Kevanhuli, Garigehuli, Devangi
0522	*Garcinia xanthochymus*	Devanhuli, Gari, Genuli, Devangi
0523	*Gardenia optusa*	Mallanga
0524	*Gardenia resinifera (Old) Gardenia turgida/Lucida/ latifolia/gummifera*	Papada, Damburuda, Karinga, Dikamali
0525	*Gardenia sp.*	Thenele
0526	*Garuga pinnata*	Kekad, Thutmule, Titmira, Kajikara, Kharpat
0527	*Gironniera reticulata*	Chuchi
0528	*Gironniera sp.*	
0529	*Gironniera subaequalis*	

Species Code	Botanical Name	Common/Local Names
0530	*Givotia rotteriformis*	Punki, Panki, Tellapoliki
0531	*Glochidion acuminatum*	Nirvetti
0532	*Glochidion neilgherrense*	Salle
0533	*Glochidion seylanioum*	Bends, Nirsalle, Sevregiada
0534	*Glochidion sp.*	
0535	*Glochidion velutinum*	Kathmalu, Kathnawha, Salai
0536	*Gluta travancorica*	Sheugurni
0537	*Glycosmis mauritiana*	Mavikyan, Kedumarela
0538	*Glycosmis pentaphylla*	Kodumaralugida
0539	*Gmelina arborea*	Siwana, Gumari, Sivan, Gambhar, Kumhar, Khamhal, Gumurteak, Kuli, Kumbil
0540	*Gordonia obtusa*	
0541	*Grevillea robusta*	Silver oak
0542	*Grewia abutilifolia*	
0543	*Grewia asiatica*	Phalsa
0544	*Grewia eriocarpa/Grewia elastica*	Dhaman
0545	*Grewia elatostenioides*	
0546	*Grewia flavescens*	Guthu
0547	*Grewia serrulata/Grewia laevigata*	Achinaru
0548	*Grewia nervosa/Grewia microcos*	Pickla
0549	*Grewia oppositifolia*	Bhimal, Behul
0550	*Grewia daminea/Grewia salvifolia*	Ulli
0551	*Grewia sp.*	Diamiul, Gharbhimti, Pharasai
0552	*Grewia tiliifolia*	Dhaman, Tada, Thadachiee, Chadichi,Chedelie
0553	*Guazuma tomentosa*	Thainpuchi, Rudraksha
0554	*Gymnosporia acuminata*	
0555	*Gymnosporia montana*	Tondarsai, Tandarsi
0556	*Gymnosporia royleana*	Guala Darim
0557	*Gymnosporia rufa*	
0558	*Gynocardia odorata*	Bandre, Ramphal
0559	*Gyrocarpus jacquini* *(Old) Gyrocarpus americanus*	Kumar penki
0560	*Gyrocarpus odorata*	Dalmugra
0561	*Gliricidia sepium/ maculata*	Glabsa
0562	*Garcinia mangostana*	
0563	*Garcinia talbotii*	
0564	*Glochilion ellipticum*	
0565	*Goniothalamus cardiopetalus*	
0566		
0567		
0568		

Species Code	Botanical Name	Common/Local Names
0569		
0570		
0571	*Haplophragma adenophyllum*	Palthan, Chonapaini,Kath sagon
0572	*Hardwickia binata*	Anjan, Vereppa
0573	*Hardwickia pinnata*	Madeyan, Sampirani, Kolavu nei, Kottei, Uram, Surali, Kiyavu, Kolla, Chittila
0574	*Harpullia cupanioides*	Madakku
0575		
0576	*Helicteres isora*	Maror Phal,Kapasi
0577	*Hemicyclia elata*	Velthachoote
0578	*Hemicyclia venusta*	Vellelambu, Palla, Kanni, Vella kasavu
0579	*Heritiera attenuata*	Boroi, Dhaman
0580	*Heritiera littoralis/Heritiera fomes*	Sundri
0581	*Heritiera macrophylla*	
~~0582~~	~~*Hernada reparia*~~	misc
0583	*Heteropanax fragrans*	Totila
0584	*Trichilia cannaroides/Heynea trijuga*	Banritha
0585	*Hibiscus furcatus*	Huligowri, Huligabari
0586	*Hibiscus macrophyllus*	Chama
0587	*Hibiscus rosasinensis*	Jaba,Gurhal
0588	*Hibiscus tiliaceus*	Safed chilka
0589	*Hiptage benghalensis (Hiptage madablota)*	Madvilata, Pikigisam
0590	*Holarrhena pubescens/ Holarrhena antidysenterica*	Inderraja, Dudkhira, Kudi, Inderajav, Kuda, Kurchi, Isteripala,Kurra
0591	*Holigarna arnottiana*	Cheracheru, Malegeru,Toturinji
0592	*Holigarna beddomei*	Palvidinyax
0593	*Holigarna grahamii*	Genu
0594	*Holoptelea integrifolia*	Kaneji, Pungo, Aval, Chiebil, Nambinara, Wavala,Ayam,Tabani,Tabasi
0595	*Homalium tomentosum*	
0596	*Homalium zeylanicum*	Manthalaa-mukki, Wavala
0597	*Hopea glabra*	
0598	*Hopea odorata*	Pongu, Thingon
0599	*Hopea parviflora*	Thanbagam, Irupu, Kambagam
0600	*Hopea racophloea*	Neducalipenga, Naikambagam
0601	*Hopea species.*	
0602	*Hopea utilis/longifolia*	
0603	*Hopea wightiana*	Nai-irulu, Kalhoni
0604	*Hevea brasiliensis*	Rubber tree
0605	*Hovenia dulcis*	Bangi
0606	*Humboldtia brunonis*	Hasiga
0607	*Humboldtia sp.*	Koratthi, Kunthani

Species Code	Botanical Name	Common/Local Names
0608	*Hydnocarpus alpina*	
0609	*Hydnocarpus kurzii/ Taraktogenos kurzii*	Chalmugra
0610	*Hydnocarpus sp.*	Matrupa, Banrang
0611	*Hydnocarpus laurifolia/ Hydnocarpus wightiana*	Nireetia, Nirveti, Mirolhakai, Kawti
0612	*Hymenodictyon excelsum*	Match, Kavai, Kadia, Matrupa, Mad, Banrang
0613	*Hymenodictyon flaccidum*	
0614	*Hymenodictyon obovatum*	Gendale, Bogi, Hirename, Phose, Kurwei, Sirid
0615	*Hippophae salicifolia*	Amej, Chook
0616	*Heracleum wallichii*	Chimpirs
0617	*Haematoxylon campechianum*	Patangi
0618	*Hyophorbe lagenicaulis*	Bottle palm
0619	*Helicteres minor*	
0620		
0621		
0622		
0623		
0624		
0625		
0626	*Ilex denticulate*	Malam thidappu
0627	*Ilex excelsa*	Tumari
0628	*Ilex fragilis*	
0629	*Ilex umbellulata/Ilex godjam*	Hatikirepa
0630	*Ilex sp.*	Kumkum, Gaib, Kandai, Kanderu, Kandek
0631	*Ilex wightiana*	Herale, Hurula
0632	*Illicium griffithii*	Lissi
0633	*Pithecellobium dulce/Inga dulcis (also in 0932)*	Vilayari, Humse, Jangle, Jilebee
0634	*Isonandra polyantha*	
0635	*Ixonanthes khasiana*	
0636	*Ixora arborea/Ixora parviflora*	Lakhandi, Telkurma, Korvi, Toroh tree, Kurat
0637	*Ixora brachiata*	Gurani, Gorbale (small tree)
0638	*Ixora calycina*	
0639	*Ixora nigricans*	Lokhandi, Yelgare
0640	*Ixora nontoniana*	
0641	*Isonandra perrottentiana*	
0642	*Ixora species*	
0643		

Species Code	Botanical Name	Common/Local Names
0644		
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0649		
0650	*Saraca asoca*	Asoka
0651	*Juglans regia*	Akhrot, Akhor
0652	*Juniperus macropoda*	Dhimp, Dhup
0653	*Juniperus pseudosabina*	Black juniper
0654	*Juniperus recurva*	Small juniper
0655	*Juniperus sp.*	Guggal
0656	*Jurinea species*	
0657	*Jacaranda mimosifolia*	Jacaranda
0658	*Jatropha gossypiifolia*	
0659		
0660		
0661		
0662		
0663		
0664		
0665		
0666		
0667	*Kayea assamica*	Sixnahar
0668	*Kayea floribunda*	Karal
0669	*Kigelia pinnata*	
~~*0670*~~	~~*Kingiodendron binata*~~	~~Shurali, Kiyavu~~
0671	*Kingiodendron pinnatum/ Hardwickia pinnata*	Piney, Shurali
0672	*Knema attenuata*	Hedmengan, Buktamsra
0673	*Knema glaucescens*	
0674	*Korthalsia laciniosa*	Kadpla
0675	*Kurrimia bipartita*	Kadapla, Konnai
0676	*Kurrimia indica* *(Old) Kurrimia laipartita*	Kadapla
0677	*Kydia calycina*	Baranga, Banakapsia, Pichela, Pula, Bhindi, Waring, Petari, Warang
0678	*Kandelia candel*	(mangrove spp)
0679		
0680		
0681		
0682		
0683		

Species Code	Botanical Name	Common/Local Names
0684		
0685		
0686		
0687		
0688	*Lagerstroemia hypoleuca*	Jalut, Pyman
0689	*Lagerstroemia indica*	Gulbahar
0690	*Lagerstroemia microcarpa/ Lagerstroemia lanceolata*	Ventheku, Vellilavap, Benteak, Nana,Vendek
0691	*Lagerstroemia parviflora*	Lendia, Kaka, Padia, Jarup, Bondaro, Supazo, Dhauri, Sidha, Pyinma, Chinangi, Londi, Bongda
0692	*Lagerstroemia reginae/ Lagerstroemia flosreginae/ Lagerstroemia spaciosa*	Ajhar, Jaruch, Nirben teak, Manimaruthu, Nirmeruthu, Taman, Bondara
0693	*Lagerstroemia sp.*	
0694	*Lannea coromandelica/Lannea grandis, Odina wodier*	Mode, Modal, Jhingan, Godal, Nabbee, Moi, Shamat, Godda, Gompena
0695	*Reinwardtiodendron anamalaiense/Lansium anamalayanum/ Aglaia anamallayanum*	Chodimare, Chingfwari
0696	*Laportea crenulata*	Morange
0697	*Larix griffithii*	Jalut
0698	*Lasiosiphon eriocephalus*	Mukkan daka
0699	*Lasiosiphon sp.*	Mukardel, Mukadala
0700	Leea indica *(Leea sambucina)*	Nurche, Jini, Midichi
0701	*Leucaena leucocephala*	Subabul
0702	*Leucosceptrum canum*	Churpis
0703	*Licuala peltata*	Salaipatti
0704	*Ligustrum neilgherrense*	Chantrike
0705	*Limonia acidissima*	Beli
0706	*Limonia sp.*	
0707	*Lindera assamica*	Sanu pahale
0708	*Lindera heterophylla*	Lekhpipli
0709	*Lindera neesiana*	Siltimur
0710	*Lindera pulcherrima*	Sinkoli
0711	*Ligustrum robustum*	Keri,Banpatra
0712	*Linociera malabarica*	Akkarkal
0713	*Lepisanthes tetraphylla*	Jhingan
0714	*Litchi chinensis*	Lichu, Lichi
0715	*Lithocarpus elegans/ Lithocarpus spicata(also in 1021)*	

Species Code	Botanical Name	Common/Local Names
0716	*Lithocarpus pachyphylla(also in 1016)*	Singrekatus
0717		
0718	*Litsea cubeba/Litsea citrata*	
0719	*Litsea grandis*	
0720	*Litsea laeta*	
0721	*Litsea monopetala/ Litsea polyantha*	Huoria
0722	*Litsea doshia/Litsea oblonga*	
0723	*Litsea panamonja*	Buichapa
0724	*Litsea salicifolia*	
0725	*Litsea shasyana*	
0726	*Litsea sp.*	Lakri, Narkh, Bailara, Shurur, Lampatia, Maida
0727	*Litsea stocksii*	Litsae
0728	*Litsea floribunda/Litsea wightiana*	Litsae
0729	*Litsea zeylanica*	Messi, Sudagenasu
0730	*Lonicera quinquelocularis*	
0731	*Lophopetalum wightianum/ Lophopetalum fimbriatum (also in 0732)*	Sutrang
0732	*Lophopetalum wightianum (also in 0731)*	Venkotha, Venkottai, Palmani, Popsa
0733	*Lyonia ovalifolia/Pieris ovalifolia*	Ainyar, Ayar
0734	*Lumnitzera racemosa*	(mangrove spp)
0735	*Litsea ghatica*	
0736	*Lawsonia inermis/ lawsonia alba*	
0737	*Linociera intermedia*	
0738		
0739		
0740	*Lepisanthes species*	
0741		
0742		
0743		
0744	*Macaranga denticulata*	Jageru, Bhura
0745	*Macaranga indica*	Papri,Malkot
0746	*Macaranga peltata*	Vetta,Bette Kannl
0747	*Macaranga pustulata*	
0748	*Macaranga sp.*	Malata
0749	*Persea frutifera/Machilus edulis*	
0750	*Persea gamblei/Machilus gamblei*	Shum
0751	*Persea gammieana /Machilus gammieana*	Chupli kawla
0752	*Persea globularia/Machilus globosa*	Kanta

Species Code	Botanical Name	Common/Local Names
0753	*Persea macrantha/Machilus macrantha*	Uravu, Gulumb
0754	*Persea odoratissima/Machilus odoratissima*	Latikawala
0755	*Persea minutiflora/Machilus parviflora*	
0756	*Machilus sp.*	Kaula, Sunkaula
0757	*Persea villosa/Machilus villosa*	
0758	*Macropanax oreophilum*	
0759	*Madhuca latifolia/M. indica* *(Old) Bassia latifolia(also in 0178)*	Mohwa, Lappa, Mahudo,Ippe
0760	*Magnolia campbellii*	Choge champ
0761	*Magnolia pterocarpa*	Patpate
0762	*Magnolia sp.*	Sapa
0763	*Mallotus albus*	Morolia
0764	*Mallotus khasianus*	
0765	*Mallotus philippensis*	Rehini, Sindhuri, Ruina, Rolli, Kamela, Kaplo, Kalujhade, Kanku, Kumkum, Kamalagundi, Shendri, Kukkum, Kabli, Anato
0766	*Mammea suriga* *(Ochrocarpus longifolius)(also in 0869)*	Surigi, Suragi
0767	*Mangifera andamanica*	Jangliam
0768	*Mangifera indica*	Am, Amb, Ambo, Mavu, Moru, Mamidi,Magani
0769	*Mangifera sylvatica*	Banam, Lakshmi
0770	*Manihot esculenta*	
0771	*Manihot glaziovii*	
0772	*Manihot utilissima*	Safeda, ~~Chiku~~, Cassava
0773	*Manilkara zapota/Manilkara achras*	Khirni, Rayan
0774	*Manilkara hexandra/ Mimusops hexandra*	
0775	*Manilkara littoralis*	Andaman bullet wood
0776	*Manilkara roxburghiana* *(Mimusops roxburghiana)*	Gunolale, Ranjal
0777	*Maniltoa polyandra (also in 0321)*	
0778	*Mansonia dipake*	
0779	*Mappia foetida*	Arali choral,Pinari
0780	*Mastixia arborea*	Kumbalamara gulle
0781	*Mastixia pentandra*	Velladambu, Nir, Kuranthu
0782	*Maytenus emarginata*	Kankera,Kapoor
0783	*Melanorrhoea usitata*	Mansonia
0784	*Melia azadirach*	Bijainn, Baknia, Motilimdo, Betain,

Species Code	Botanical Name	Common/Local Names
		Bakamlimdo
0785		
0786	*Melia dubia/ Melia composita*	Bucavbevu
0787	*Melia sp.*	Vishapari
0788	*Meliosma arnottiana*	Kusavithagari
0789	*Meliosma pinnata*	
0790	*Meliosma simplicifolia*	
0791	*Meliosma sp*	Gwel, Busha, Goi, Gex
0792	*Memecylon angustifolium*	Mathu, Kavumara
0793	*Memecylon edule/umbellatum*	Anjani
0794	*Mentha aruensis*	Mentha
0795	*Mesua ferrea*	Negeshwar, Nangu, Peri, Vellathappala, Nahar, Atha, Gangan, Nagchapha,Vainav
0796	*Michelia baillonii(also in 1159)*	
0797	*Michelia champaca*	Champa, Titasopa, Bampige,Sembage
0798	*Michelia doltsopa/ Michelia excelsa*	
0799	*Michelia lanuginosa*	Purrochamp
0800	*Michelia leailleni*	
0801	*Michelia glabra/Michelia montana*	Sundi
0802	*Michelia nilagirica*	Kadu sampige
0803	*Michelia parviflora*	
0804	*Michelia sp.*	Champ, Garari, Kanjira
0805		
0806	*Miliusa sp.*	Jangli, Segwan
0807	*Miliusa tomentosa/ Saccopetalum tomentosum(also in 1058)*	Kari, Umbh
0808	*Miliusa velutina*	Domsal,Guasal
0809	*Miliusa wightiana*	
0810	*Millingtonia hortensis*	Akashneem, Akash limdo
0811	*Mimusops elengi*	Bakul, Yelande, Wawli
0812	*Mimusops roxburghiana*	Kanapalei
0813	*Mimusops sp.*	Dhekul, Khaja
0814	*Mistixia arborea*	Kunbalnara, Gulle
0815	*Mitragyna parvifolia/Stephegyne parvifolia (also in 1111)*	Mundi, Phaldu, Kaiz, Battaganam, Kalamb, Panikadam
0816	*Mansonia sp.*	Badam
0817	*Moringa oleifera/Moringa pteryogosperma*	Sohnigna, Sainjana, Shivga
0818	*Morinda tinctoria/tomentosa*	Aal, Ali, Aledi, Achu, Togarmoghli
0819	*Moringa sp.*	Sohjna, Sajna, Munga,Saragua
0820	*Morus alba*	Tori,Tuntri,Tont
0821	*Morus laevigata*	Bola

Species Code	Botanical Name	Common/Local Names
0822	*Morus sp.*	Tut, Kimu, Shahtoot
0823	~~*Munaya*~~ *Vernonia amygdalina*	
0824	*Murraya paniculata*	Bilgar,Marchula,Kamini
0825	*Murraya koenigii*	Gandhela,Keth Nim
0826	*Myrica esculenta/ Myrica nagi*	Kaphal
0827	*Myristica andamanica*	
0828	*Myristica attenuata*	Paktamara
0829	*Myristica beddomei/ Myristica dactyloides*	Hed-Patre, Zajikui
0830	*Myristica canarica*	Pindi
0831	*Myristica laurifolia/ Myristica linifolia*	Kathi, Jai, Juthi, Choremara, Ramgote, Katijijaji
0832	*Myristica magnifica*	Ramanadike
0833	*Myristica malabarica*	Bempatre, Kadjaiphal, Ranjaiphal
0834	*Myristica sp.*	Jaiphal
0835	*Memecylon malabaricum*	Bandke
0836	*Muntingia calabura*	
0837	*Memecylon talbotianum*	
0838	*Meyna spinosa*	
0839	*Myristica fragrans/aromatic/moschala/officinalis*	
0840	*Mitragyna tubulosa*	
0841	*Markhamia platycalyx*	
0842	*Memecylon species*	
0843	*Moringa concanensis*	
0844	*Maba buxifolia (Diaspyros ferrea)*	
0845		
0846	*Neonauclea griffithii/ Nauclea griffithii*	Jeinkola
0847	*Neonauclea gageana/Nauclea gageana*	Teiukala
0848	*Nephelium longana (old)/ Euphoria longana/ Dimocarpus longan (also in 0456)*	Kattasamba, Mudagam, Kana, Kindali, Kendale Chakotta, Sannale, Koomathi, Bonlicha
0849	*Nephelium stipulaceum*	Malekoomathi
0850	*Nerium indicum (Oleander)*	Karabi, Kaner,Asubora
0851	*Nothapodytes foetida*	Peenari, Helari,Pineri
0852	*Nothopegia colebrookiana*	Ambari
0853	*Nyctanthes arbortristis*	Harshingar, Kari
0854	*Nyssa javanica* *(Old) Nyssa sessiliflora*	Goharisapa
0855	*Nardostachys jatamansi*	
0856	*Naringi crenulata/Limonia crenulata*	
0857	*Nephelium lappacacum*	

Species Code	Botanical Name	Common/Local Names
0858	*Nothopegia / Glycycarpus racemosus*	
0859		
0860		
0861		
0862		
0863		
0864		
0865	*Ochna squarrosa* *(Old) Ochna obtusata*	Nadli
0866	*Ochna wightiana*	Silimbi, Katkurai
0867	*Ochroma lagopus*	
0868	*Ochroma pyramidale*	Balsa
0869	*Ochrocarpus longifolius(also in 0766)*	Surangi
0870	*Ochrocarpus siamensis*	
0871	*Olea cuspidata*	Bairbanj, Kau
0872	*Olea dioica*	Akksale, Madle, Parjambhul, Lauki
0873	*Olea ferruginea*	Olive
0874	*Olea glandulifera*	Garura,Galda,Gair
0875	*Operculina turpethum*	Bilialutigadda, Trupeth
0876	*Ormosia travancorica*	Manchadi,Chlwaiaial
0877	*Oroxylum indicum*	Tarlu, Tantia, Dumpii, Jaimangal, Dingorri, Teta, Telvo, Sona, Pharkot
0878	*Osmanthus fragrans*	Silang, Silangi
0879	*Ostodes paniculata*	Bepari
0880	*Ostodes zeylanica*	Balinga
0881	*Ougeinia dalbergioides*	Tinsa, Sandhan, Tenaph, Tiwas, Dargu
0882	*Oxytenanthera monostigma*	Garate, Choua
0883	*Dactylorhiza hatagirea/Orchis latifolia*	
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0890	*Phonix reclinata*	
0891	*Paramignya monophylla*	
0892	*Phyllanthus reticulatus*	
0893	*Pajanelia longifolia*	Jingin
0894	*Pajanelia rheedii*	Jingan, Ohirw
0895	*Palaquium ellepticum*	Pala, Cheppala, Pacherthi, Pali
0896	*Palaquium polyanthum*	Kurta
0897	*Elaeis guineensis*	*Palm oil tree*
0898	*Pandanus furcatus*	Mundige, Gubbikedini

Species Code	Botanical Name	Common/Local Names
0899	*Pandanus tictorius* *(Old) Pandanus odoratissimus*	Sathepu
0900	*Parashorea stellata*	
0901	*Parinarium indicum*	
0902	*Parkia joyrica/ roxburghii*	Manipurmuroh
0903	*Parkinsonia aculeata*	Kodanchi
0904	*Pavetta indica*	Pavate, Pappadi, Pavattei
0905	*Pemphis acidula*	Kiri
0906	*Pentace burmanica*	
0907	*Pentace suavis*	
0908	*Perishia insignis*	Red dhup
0909	*Persea owdenii* *(Old) Alseodaphne owdenii*	Tulsi sundi
0910	*Pittosporum ferrugineum*	
0911	*Phoebe attenuata*	Nikahi
0912	*Phoebe cooperiana*	Makahi
0913	*Phoebe goalparensis*	Bonsum
0914	*Phoebe hainesiana*	
0915	*Phoebe lanceolata*	Tumri, Bhadrai, Bhader, Kekra, Suankaula, Bagdo
0916	*Phoebe paniculata*	
0917	*Phoebe sp.*	
0918	*Phoenix humilis*	Shawri,Khajoor,Khazira
0919	*Phoenix sylvestris*	Betha, Khajur
0920	*Phoenix tarnifera*	Kirichilu
0921	*Picea smithiana(also in 0003)*	Spruce
0922	*Picea spinulosa*	Spruce
0923	*Lyonia villosa/ Pieris villosa*	Lek, Augeri
0924	*Pinanga dicksonii*	Jonjarige
0925	*Phoenix paludosa*	Hetal
0926	*Pinus wallichiana/excelsa*	Kail
0927	*Pinus gerardiana*	Chilgoza
0928	*Pinus kesiya/insularis*	Pine, Dingsa, Saral
0929	*Pinus roxburghii/ Pinus longifolia*	Chir
0930	*Pistacia integerrima*	Kakkar, Kakroi, Kakra
0931	*Pithecellobium bigeminum/ Archidendron monadelphum*	Muthakopappen
0932	*Pithecellobium dulce(also in 0633)*	Seemehunse,Jugal,Jalatri
0933	*Pittosporum floribundum/ Pittosporum napaulense*	Dadgoli, Tamatta
0934	*Planchonellia longipetiolata/ Sideroxylon longipetiolatium (also in 1100)*	Lambapatti, Lambapretti

Species Code	Botanical Name	Common/Local Names
0935	*Planchonia andamanica*	Red bambhury
0936	*Plumeria rubra*	Devakekigal
0937	*Podocarpus latifolia/wallichianus*	Narambali
0938	*Podocarpus neriifolia*	Jinari, Jhitamin
0939	*Poeciloneuron indicum*	Ballagi
0940	*Poeciloneuron pauciflorum*	Puttangkolta, Puli vayila
0941	*Pogostemon pathchouli*	Patchouli
0942	*Poinciana elata*	Nirangi, Padenarayam, Sukeswar, Shakesulta
0943	*Polyalthia cerasoides*	Kala kasAI, Chilkaduddi
0944	*Polyalthia coffeoides*	Maragowri
0945	*Polyalthia fragrans*	Nedunar, Kakechapaya
0946	*Polyalthia longifolia*	Chorwnna, Arunna, Assotham
0947	*Polyalthia sp.*	Chami, Kohori
0948	*Pometia pinnata/tomentosa*	Jhit, Kandam
0949	*Pongamia pinnata* *(Old) Pongamia glabra/derris indica*	Karanji, Kauge, Polangunge,Panga,Honga
0950	*Populus ciliata*	Poplar, Safeda, Paharipipal,Vanu
0951	*Populus sp.*	Bonpipal, Godhpipal
0952	*Pouteria grandifolia*	
0953	*Premna bengalensis*	Gohra, Pingta, Guze, Pakirhar
0954	*Premna latifolia*	Gunaru,Munnamera,Bokracha,Bakar
0955	*Premna milleflora*	Silgomari
0956	*Premna sp.*	Bakarcha
0957	*Premna tomentosa*	
0958	*Prosopis cineraria/ Prosopis spicigera*	Hingota,Jand,Sondad,Jant
0959	*Prosopis juliflora*	Bengali babul, Mulmaram, SeemaiKaruvelam
0960	*Prosopis sp.*	Pahari kikar
0961		
0962	*Commiphora eticul / Protium caudatum*	Kondamavu
0963	*Protium serratum/ Bursera serrata(also in 0172)*	Mirtegna, Neur, Hern
0964	*Prunus communis/ varinsitia*	Pulum
0965	*Prunus cornuta* *(Old) Prunus padus*	Payyan, Jamun, Padam, Paji
0966	*Prunus domestica*	Plum
0967	*Prunus martabanica/javanica*	Lal thingam
0968	*Prunus nepaulensis*	Arupate
0969	*Prunus sp.*	Aria, Gont, Aru, Khurmani, Chiller
0970		

Species Code	Botanical Name	Common/Local Names
0971	*Pseudostachyam polymorphum*	Bajal
0972	*Psidium guajava*	Guava, Jam
0973	*Psychotria dalzellii*	Dutiyale, Fatpati
0974	*Psychotria sp.*	Ottumadikay
0975	*Pterocarpus indicus/ dalbergioides*	Pokak, Podauk
0976	*Pterocarpus marsupium*	Bija, Bijo, Bib, Bijasal, Pesur, Vengi, Honne, Damsal, Bibla, Asan
0977	*Pterocarpus santalinus*	Rakta chandan
0978	*Pterocymbium tinctorium/ Sterculia companculata*	Papita
0979	*Pterospermum acerifolium*	Kapak, Champa, Ratipalia
0980	*Pterospermum canescens*	Hathipalli
0981	*Pterospermum glabrescens/ diversifolium*	Vatta Polavu, Pambaram
0982	*Pterospermum heyneanum*	Giringa
0983	*Pterospermum lancifolium*	Bongloguri
0984	*Pterospermum reticulatum*	Mulipolovu, Tholpuli, Kora toverary, Malavuram punangke
0985	*Pterospermum rubiginosum*	Malamthodali, Chittilei, Polavo
0986	*Pterospermum sp.*	Bhatgila, Togune
0987	*Pterospermum suberifolium*	Sownamara
0988	*Pterygota alata/ Sterculia alata(also in 1112)*	
0989	*Punica granatum*	Anar, Kotla, Darum, Sarchamia, Bandurpela
0990	*Putranjiva roxburghii*	Putajan, Putranjiv
0991	*Pyrularia edulis*	Amplu
0992	*Pyrus pashia*	Kainth, Mehal
0993	*Pyrus sp.*	Galya, Mohul, Moi, Moli
0994	*Pyrus communis*	Nashpati
0995	*Pinus petula*	Pine
0996	*Prunus persica*	Aadu
0997	*Podophyllum hexandrum*	
0998	*Picrorhiza kurroa*	
0999	*Platanus orientalis*	Chinar
1000	*Pouteria campechiana*	
1001	*Persea eticulat/gratissima*	
1002	*Pittosporum dasycaulon*	
1003	*Plumeria alba*	
1004	*Quercus acutissima/ Quercus serrata*	Titonj, Moru, Moruoak
1005		
1006	*Quercus floribunda/ Quercus dilatata/ Quercus himalayana*	Moru, Moru oak

Species Code	Botanical Name	Common/Local Names
1007	*Quercus glauca*	Bani,Phanat
1008	*Quercus griffithii*	Ban oak, Banj
1009		
1010		
1011	*Quercus lamellosa*	Bajrant, Buk
1012	*Castanopsis lanceifolia/ Quercus lanceifolia*	Patle, Katus
1013	*Quercus lanata/Quercus lanuginosa*	
1014	*Quercus leucotrichophora/ Quercus incana*	
1015	*Quercus lineata*	Phalat, Katus
1016	*Lithocarpus pachyphylla/ Quercus pachyphylla(also in 0716)*	
1017	*Quercus semecarpifolia*	Kharsu oak
1018	*Quercus semiserrata*	Kharsu
1019		
1020	*Quercus sp.*	Oak, Philiant, Rainj, Riani
1021	*Lithocarpus elegans/Quercus spicata(also in 0715)*	Ar kanla
1022		
1023	*Parkia biglandulosa*	Earlier given 999 to be given new code on 23-2-2017
1024		
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1031		
1032	*Radermachera xylocarpa/ Stereospermum xylocarpum (also in 1120)*	Genasu
1033	*Randia dumetorum*	Phetra, Kala phetra, Gela
1034	*Randia species.*	Mainphal
1035	*Randia uliginosa*	Kala phetra
1036	*Rauvolfia serpentina*	Sarpagandha, Garudapotala
1037	*Rhizophora sp.*	~~Khair~~
1038	*Rhododendron arboreum*	Burans, Biirans
1039	*Rhododendron barbatum*	Lalchimal
1040	*Rhododendron falconeri*	Korlingo
1041	*Rhododendron griffithianum*	Sctochimal
1042	*Rhododendron hodgsonii*	Korlings

Species Code	Botanical Name	Common/Local Names
1043	*Rhododendron sp.*	Ghemula, Talias, Simris, Taqueaha
1044	*Rhus javanica*	
1045	*Rhus sp.*	Jung, Nizas, Tibri, Arkhol, Almora
1046	*Rhus succedanea*	Arkhol
1047	*Robinia pseudacacia*	
1048	*Rheum emodi/australe*	
1049	*Rhizophora apiculata*	Garjan (mangrove spp)
1050	*Rhizophora mucronata*	(mangrove spp)
1051	*Roystonea regia*	
1052	*Rinoria bengalensis*	
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1058	*Saccopetalum tomentosum/ Miliusa tomentosa(also in 0807)*	Ubalu
1059	*Sageraea elliptica*	Chvoi
1060	*Sageraea laurifolia*	Kanakaitha
1061	~~*Sageraea*~~ *Sageretia oppositifolia*	Gonta
1062	*Salix acmophylla*	Bed,Bisu
1063	*Salix alba*	Bhains,Willow
1064	*Salix sp.*	Bed, Bhainshara, Bashroi, Manju, Gadhbhains
1065	*Salix tetrasperma*	Bheh
1066	*Salmalia insignis (Old) Bombax insigne*	Karilavu, Pareillavu, Dumboil, Kalilavu, Pariilavu
1067	*Salvadora oleoides*	Piloo, Mithijar
1068	*Salvadora persica*	Piloo, Khanjau
1069	*rticulate p.*	Jal, Jhal
1070	*Samanea samam*	Raintree
1071	*Santalum album*	Chandan, Santhanam, Sukhad
1072	*Sapindus attenuatus*	
1073	*Sapindus emarginatus (Old) Sapindus trifoliatus*	Ritha, Aritha, Chootokoi, Kumkuda,Soapnut
1074	*Sapindus laurifolius*	Arithi,Hantwala
1075	*Sapindus mukorossi*	Ritha/Bhilwa, Bhilam, Bhiwalo
1076	*Sapium baccatum*	Selling, Bella
1077	*Sapium eugeniaefolium*	
1078	*Sapium insigne*	Khinna, Khirna, Khimi, Hure
1079	*Sapium sebiferum*	Tarharbi,Pahari,Shisham
1080	*Sarcosperma arboreum*	Kalikath

Species Code	Botanical Name	Common/Local Names
1081	*Saurauia nepalensis*	Gogun
1082	*Saurauia pundula*	
1083	*Schima khasiana(also in 1084)*	Diengan
1084	*Schima khasiana(also in 1083)*	Makrisal
1085	*Schima wallichii*	Makrisal
1086	*Schleichera oleosa/Trijuga*	Kusum, Poova, Segade, Gosum, Katha, Ume, Koshimb, Kosam, Poovam,Gutel
1087	*Schrebera swietenioides*	Mokha, Mokho, Mokab
1088	*Scolopia crenata*	Kodelimara, Sompai, Japal, Charle
1089	*Semecarpus anacardium*	Bhilwa, Bhela, Bibi,Bibwa
1090	*Semecarpus auriculata*	Vellei charei, Man cherei, Charei
1091	*Semecarpus kurzii*	Bora bhilwa, Bibi
1092	*Semecarpus travancorica*	Kattu, Shenkottei, Punnacheri, Avukeram
1093	*Sesbania bispinosa*	Chaveri
1094	*Sesbania grandiflora*	Bakful
1095	*Shorea assamica*	Makai
1096	*Shorea robusta*	Sal
1097	*Shorea talura*	
1098	*Shorea tumbuggaia*	Congu, Tambugai, Tanbagum, Thamba guggilapukara
1099	*Sideroxylon grandifolium*	
1100	*Sideroxylon longipetiolatum /Planchonella longipetiolata (also in 0934)*	Lambapatti, Lambapretti
1101	*Sloanea assamica (Old) Echinocarpus assamicus*	Joba, Kori, Gingori
1102	*Sloanea dasycarpa /Echinocarpus dasycarpus (Old) (also in 0390)*	Gobra, Seta, Binder
1103	*Smilax prolifera*	Nirubetta, Karinarigaddi
1104	*Solanum nigrum*	Piloo, Pilchhi
1105	*Sonneratia apetala*	Keowara, Keoda,Solanum tarvum, Kaora
1106	*Sonneratia caseolaris (Old) Sonneratia acida*	Lamu
1107	*Soymida febrifuga*	Rohan, Royan, Somi
1108	*Spondias acuminata*	Ambat
1109	*Spondias axillaris*	Lapsi
1110	*Spondias pinnata/ Spondias mangifera*	Ambra, Amra, Amar, Amria, Amora, Khati, Kadambate, Ambudi, Ambada,Akariai
1111	*Stephegyne parvifolia/ Mitragyna parviflora(also in 0815)*	Mundi, Phaldu, Kaiz, Battaganam, Kalamb, Panikadam
1112	*Sterculia asper/alata(also in 0988)*	Eairadanti, Mitle
1113	*Sterculia foetida*	Badam

Species Code	Botanical Name	Common/Local Names
1114	*Sterculia guttata*	Kithendi, Thendi, Kudare punclal, Kokar, Kolindar
1115	*Sterculia urens*	Kullu, Kadaya, Kadu, Genduli, Tapsi, Panerukh, Kandol, Salad
1116	*Sterculia villosa*	Udala, Vikka, Chilk, Sarda, Udal, Godgh, Dala
1117	*Stereospermum aungstifolium*	Chaipatoli
1118	*Stereospermum personatum/ colais/Chelonoides*	Padar, Paroli, Malai, Karingkhuru, Pumbhathiri, Dharmara
1119	*Stereospermum suaveolens*	Pedal, Pader, Khadsing
1120	*Stereospermum xylocarpum/ Radermachera xylocarpa(also in 1032)*	Genasu
1121	*Stranvaesia glaucescens*	Gadh meha
1122	*Strobilanthes sp.*	Gurgi, Yelegargu
1123	*Strombosia ceylanica*	Yeeya
1124	*Strombosia leprosa*	Chitramara
1125	*Strychnos nuxvomica*	Ruchala, Mushti, Kajra
1126	*Strychnos potatorum*	Nirmali
1127	*Styrax serrulatum*	
1128	*Swietenia febrifuga*	
1129	*Swietenia mahagoni*	Mohogani
1130	*Symingtonia populnea (Old) Bucklandia populnea*	Pipli
1131	*Symphyllia mallotiformis*	Ammemara
1132	*Symplocos crataegoides*	Lodh, Lodhra,Lodar
1133	*Symplocos laurina (Old) Symplocos spicata*	Kharana
1134	*Symplocos theaefolia*	Kharana
1135	*Syzygium cerasoideum (Old) Euginea cerasoides/ operculatus*	Piamam, Raijamuni
1136	*Syzygium cumini/jambolana (Old) Eugenia jambolana/Spp.*	Jamun, Jamoon, Piaman, Rajamun, Jamak, Jambudo, Jambu, Jambudi, Jambhul,Naval,Nellali
1137	*Syzygium gardneri (also in 0441)*	Bilitrupe, Boliurpa, Bilichuropa
1138	*Syzygium jambos*	Rose apple, Golap jam
1139	*Syzygium mentanum*	Ped, Neralu, Panjambul
1140	*Syzygium arnottianum*	Vhikksri
1141	*Syzygium species*	
1142	*Syzygium sonnaranangense**samarangense*	Jamrul
1143	*Syzygium syzygoides (also in 0438)*	

Species Code	Botanical Name	Common/Local Names
1144	*Syzygium utilis*	Hanneralu, Henneri
1145	*Syzygium zeylanicum* *(Old) Eugenia spicata (also in 0449)*	Hole, Lukki, Nekral, Hole-lucky
~~1146~~	~~*Syfroxylon wightii*~~	~~misc~~
1147	*Symplocos cochinchinensis*	Budgemi
1148	*Solanum sp.*	
1149	*Schefflera racemosa*	
1150	*Sarcocalinium longifolium/* *Agrostistachys borneensis*	
1151	*Spathodea companulata*	
1152	*Scleropyrum wallichianum*	
1153	*Sesbania species*	
1154	*Sterblus asper*	
1155	*Tabernaemontana divaricata*	
1156	*Tabernaemontana heyneana* *(Old) Ervatamia heyneana*	Madderse, Kuda, Nab, Maddlemera
1157	*Tabernaemontana dichotoma*	Maddrasa
1158	*Magowha hodgsonii/Talauma hodgsonii*	Boramanfluri
1159	*Michelia baillonii (Talauma phellocarpa) (also in 0796)*	Khari, Kasopa, Tite sopa
1160	*Tamarindus indica*	Imali, Amli, Chinch, Ambli, Tentulii, Chinta
1161	*Tamarix rticulate/aphylla*	Farash,Pullinaram
1162	*Taxus baccata*	Thuder
1163	*Tecomella undulata*	
1164	*Tectona grandis*	Sagwan, Teak
1165	*Teinostachyum dullooa*	Palso
1166	*Trema amboinensis*	Bukin patti
1167	*Terminalia arjuna*	Arjun, Kahuwa, Sadadoe, Naiain, Sadada,Holemath
1168	*Terminalia belerica*	Behera, Behdo, Gowa, Phomra, Kamia, Tharala, Thani, Thannia, Thavale, Hela, Vehela
1169	*Terminalia bialata*	White chuglam
1170	*Terminalia catappa*	Bengal almond
1171	*Terminalia chebula*	Harra, Karaka, Har, Harar, Hirdo kadukkai, Karida, Haritaki, Karida
1172	*Terminalia citrina*	Hilka, Hirtake, Bombwe
1173	*Terminalia alata/ Terminalia tomentosa/crenulata*	Saja, Sajad, Saj, Ain, Alu, Asan, Sain, Pakasaj, Karimaradu, Thambavu,Maltri
1174	*Terminalia mannii*	Black chuglam

Species Code	Botanical Name	Common/Local Names
1175	*Terminalia myriocarpa*	Hollock, Pani
1176	*Terminalia paniculata*	Pillemaradu, Kinjal, Maruthu
1177	*Terminalia procera*	
1178	*Terminalia sp.*	Bomda
1179	*Terminalia travancorensis*	Pei kadukkai, Chule maruther, Kattakadukkai
1180	*Ternstroemia gymnanthera* *(Old) Ternstroemia japonica*	
1181	*Tetrameles nudiflora*	Bhulu, Tulu, Chini, Kapsin, Vellacheeni, Vellapasa, Thitpok, Chandul, Siddam
1182	*Thespesia populnea/populnoides*	Bhendi, Poovarasu, Paras
1183	*Thuja compacta*	
1184	*Vepris bilocularis/Toddalia bilocularis (also in 1221)*	Mangappe
1185	*Trema orientalis*	Geta, Klargol, Kapshi
1186	*Trewia nudiflora*	Gutel, Thumri, Retari, Dhenleppedda, Perumera, Borra, Pituli, Kumbil, Bhura, Mera
1187	*Trigonostemon semperflorens*	
1188	*Tsuga dumosa* *(Old) Tsuga brunoniana*	Tamer, Hemlock, Tansen
1189	*Tupidanthus calyptratus*	Thingsaki
1190	*Turpinia cochinchinensis* *(Old) Turpinia nepalensis*	Kanali, Pambe-Vetti
1191	*Tecoma stans*	
1192	*Tabebuia argentea*	
1193	*Theobroma cacao*	New code to be given 16- 2 -2016
1194	*Tabebuia aurea*	
1195	*Tabebuia pallid*	
1196	*Tabebuia rosea*	
1197	*Tecoma species*	
1198	*Thuja orientalis*	
1199	*Thevetia nerrifolia*	
1200		
1201	*Ulmus integrifolia*	Manuk
1202	*Ulmus lancifolia*	Diengtyrsam
1203	*Ulmus parvifolia*	
1204	*Ulmus wallichiana*	Chamar, Mawa, Himri, Himalayahelm
1205	*Uvaria hamiltonii*	
1206	*Unona pannosa*	
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Species Code	Botanical Name	Common/Local Names
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~~1216~~	~~*V khasiana*~~	
1217	*Vateria indica*	Payia, Paini, Velthapan,Dhupe,Dhoopa
1218	*Vatica chinensis*	Nedunatha
1219	*Vatica lanceifolia*	Morhal
1220	*Vatica roxburghiana*	Adakapaini
1221	*Vepris bilocularis(also in 1184)*	Kareagil
1222	*Viburnum acuminatum*	Yalesandi
1223	*Viburnum punctatum*	Konakaran
1224	*Viburnum species*	Asare
1225	*Vitex alata*	
1226	*Vitex altissima*	Mayilayi, Myla, Mylellu, Bulgi
1227	*Vitex heterophylla*	Panch pate
1228	*Vitex leucoxylon*	Songarbi
1229	*Vitex negundo*	Sinuer
1230	*Vitex peduncularis*	Ahoi
1231	*Vernonia arborea*	
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1241	*Walsura trifolia/Walsura piscidia*	Chokumara
1242	*Walsura trijuga*	Attemara
1243	*Webera corymbosa*	Chikoravi
1244	*Wendlandia exserta*	Bathna, Chaulai, Tirchuni, Nirgondi
1245	*Wendlandia notoniana*	Puva, Kadamban
1246	*Wendlandia wallichii*	
1247	*Woodfordia floribunda/fruticosa*	Asre
1248	*Wrightia speciosissima/Wrightia gigantea*	Baini karru
1249	*Wrightia tinctoria*	Dhudi, Kadav, Motikudi, Bhura, Aiyapale, Pale, Kudi, Kuda,Bela
1250	*Wrightia arborea/Wrightia tomentosa*	Dhudi, Dasla, Dark, Palakodsa, Kuda,

Species Code	Botanical Name	Common/Local Names
		Tambada
1251	*Washintonia filefera*	
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1262	*Xanthophyllum andamanicum*	Latpyan
1263	*Xanthophyllum flavescens*	Ksivokki, Chalape
1264	*Xanthophyllum rhetsa*	Mullilem, Rhetsa, Triphal
1265	*Xeromphis uliginosa*	Kaikorai
1266	*Xerospermum glabratum*	Thingasaki
1267	*Xylia dolabriformis*	Pyinkado
1268	*Xylia xylocarpa*	Tangan, Trul, Irula konda, tangera, Jamba
1269	*Xylocarpus gangeticus*	
1270	*Xylocarpus granatum/ccarapa/ obovate/ Xylocarpus obovatus*	Pinllon, Dhundul
1271		Pintim
1272	*Xylopia parviflora*	Kaikoval
1273	*Xylosma longifolium*	Sallu, Kangrur
1274	*Xylocarpus mekongensis*	Passur (mangrove spp)
1275	*Xantolis tomentosa*	
1276		
1277		
1278		
1279		
1280		
1281		
1282		
1283		
1284	*Zanthoxylum armatum*	Tiur
1285	*Zanthoxylum retsa (also in 0473)*	
1286	*Ziziphus glabrata*	Karukunti
1287	*Ziziphus mauritiana* *(Old) Ziziphus jujuba*	Ber,Kul
1288	*Ziziphus oenoplia*	Sodimullu, Santhu pargi, Kaikoral, Kalpatta
1289	*Ziziphus rugosa*	Bilimaralahannu

Species Code	Botanical Name	Common/Local Names
1290	*Ziziphus xylopyra*	Ghont, Gotti, Cathbor
1291	*Jatropha curcas*	Chanderjyot,Mogle
1292	*Jatropha species*	
1301	*Acanthus ilicifolius*	(mangrove spp)
1302	*Aegialitis rotundifolia*	Tora (mangrove spp)
1303	*Aegiceras corniculatum*	Khalsi (mangrove spp)
1304	*Araucaria*	
1305	*Actinodaphne malabarica*	
1306	*Artocarpus altilis/ communis/ incisa*	
1307	*Araucaria columnaris*	
1308	*Annona eticulate/ humboldtiana (Annona humboldtii / laevis / longifolia / riparia / mukosa / Rollinia mucosa / orthopetala / pulchrinervia / sieberi)*	
1309	*Acacia cineraria*	
1310	*Averrhoa bilimbi*	
1311	*Acalypha indica*	
1312	*Araucaria cunninghamii*	
1313	*Atalantia species*	
1314	*Annona muricata*	
1315	*Aglaia malabarica*	
1316	*Aglaia simplicifolia*	
1317	*Acacia modesta*	
1318	*Acacia leucophloea*	
1319	*Antidesma ghaesembilla*	
1320	*Archontophoenix alexandrae*	
1321	*Celtis philippenesis*	
1322	*Citrus eticulate / deliciosa / vangasy*	
1323	*Casia species*	
1324	*Coffea Arabica(coffee)*	
1325	*Couroupita guianensis*	
1326	*Cryptolepis buchananii*	
1327	*Peltophorum pterocarpum*	
1328	*Cinnnamomum camphora*	
1329	*Cunometra iripa*	
1330	*Phyllanthus acidus*	
1331	*Celtis timorensis*	
1332	*Citharexylum spinosum*	
1333	*Cryptocarya stocksii*	
1334	*Margaritaria indica*	
1335	*Orophea zeylanica*	

Species Code	Botanical Name	Common/Local Names
1336	*Phyllanthus species*	
1337	*Celastrus paniculatus*	
1338	*Celtis tetrandra*	
1339	*Cryptocarya species*	
1351	*Casearia championii*	*Saptarangi*
1352	*Cinamomum verum*	*Thakthing*
1353	*Cornus capitata*	*Himalayan Strawberry Tree*
1354	*Docynia indica*	*Assam Apple*
1355	*Helicia robusta*	*Pasaltakaza*
1356	*Livistona jendkinsiana*	*Toko Patta*
1357	*Macropanax undulatus*	*Phuanberh*
1358	*Peltophorum*	*N.A.*
1359	*Prunus puddum*	*Wild Himalayan Cherry*
1360	*Sonneratia alba*	*Nakshathrakandel, Apple Mangrove*
1361	*Balanites maughamii*	*(Torch wood)*
1362	*Ximenia Americana*	*Nakeera*
1363	*Bruguiers gumnorrhiza*	*Oriental Mangrove*
1371	*Cestrum noctumum*	*Rat ki Rani*
1372	*Coriarria nepalensis*	*Massura*
1373	*Chrysophyllum cainito*	
1374	*Corchorus olitorius*	
1381	*Picrasma quassioides*	
1382	*Phyllanthus polyphyllus*	
1391	*Simaruba glauca*	
1392	*Streblus asper (also 1154)*	
1401	*Acacia mellifera*	
1402	*Aleurites triloba*	
1403	*Allophylus cobbe*	
1431	*Drypetes sepiaria*	

Species Code	Botanical Name	Common/Local Names
1551	*Swietenia macrophylla*	
1371	*Chrysophyllum cainito*	
1372	*Corchorus olitorius*	
1999	Unidentified trees/Miscellaneous	
2000	Identified and uncoded trees	
Bamboo & Cane		
2001	*Sinarundinaria maling/Arundina maling*	
2002	*Bambusa arundinacea/ bambos*	Kanta, Banas, Budit bans, Bamboo, Hollow bans, Velu
2003	*Bambusa balcooa*	Bamboo, Bhaluka
2004	*Bambusa khasiana*	Bamboo
2005		
2006	*Bambusa nutaus*	Bamboo
2007		
2008	*Bambusa pallid*	Bamboo, Bijli, Makal
2009	*Bambusa polymorpha*	Bamboo
2010	*Bambusa sp.*	Bamboo
2011		
2012	*Bambusa tulda*	Bamboo, Jati, Maritonga, Mritenga
2013	*Bambusa vulgaris*	Bamboo
2014	*Calamus andamanicus*	Cane, Thick cane
2015	*Calamus erectus*	Cane
2016	*Calamus floribundus*	Cane
2017	*Calamus latifolius*	Cane
2018	*Calamus leptospadix*	Cane
2019	*Calamus longisetus*	Cane
2020	*Calamus palustris*	Cane, Malaibet
2021	*Calamus sp.*	Cane,Naga
2022	*Calamus tenuis*	Cane
2023	*Dendrocalamus hamiltonii*	Bamboo, Kako, Okagi
2024	*Dendrocalamus longispathus*	Bamboo
2025	*Thamnocalamus spathiflorus*	Ringal
2026	*Dendrocalamus sp.*	Bamboo
2027	*Dendrocalamus strictus*	Kanak, Shib, Udha, Medar, Bamboo, Solid bans, Chhota bans
2028	*Melocanna baccifera*	Mooli bans, Bamboo
2029	*Teinostachyum dullooa*	Bamboo, Rauthla bans
2030	*Ochlandra brandisii*	Nanyurali, Maieetha, Chittu
2031	*Ochlandra travancorica*	Eral, Chittu, Etha

Species Code	Botanical Name	Common/Local Names
2032		
2033	*Oxytenanthera bourdilloni*	Reed
2034	*Oxytenanthera monostigma*	Bamboo
2035		
2036		
2037	*Oxytenanthera stocksii*	Bamboo, Manga, Konda
2038	*Oxytenanthera thwaitesii*	Reed
2039	*Teinostachyum wightii*	Nanyura, Maieetha
2040	*Cephalostachyum sp.*	
2041	*Sinarundinaria sp.*	
2042	*Teinostachyum sp.*	
2051	*Bambusa auriculata*	Comman Bamboo
2052	*Bambusa cacharensis*	Bom/bethua bans
2053	*Bambusa Jaintiana*	Tetua
2054	*Bambusa multiplex*	Nan/Hedge bamboo
2055	*Bambusa nutans*	Kai
2056	*Bambusa polymorpha Munro*	Paura
2057	*Bambusa schizostachyoides*	N.A.
2058	*Calamus viminalis*	C-karak/ Bora bet
2059	*Oxytenanthera nigrociliata /Gigantochola Nogrociliata*	Kalyai
2060	*Schizostachyum dulloa*	Dolu
2061	*Schizostachyum regersil*	N.A.
2062	*Teinostachyum dullooa*	Bamboo
2063	*Thyrosostachys oliveri*	Bamboo clump forming
2064	*Guadua angustifolia*	Clump forming
2100	Unidentified bamboo	
2150	Unidentified canes	

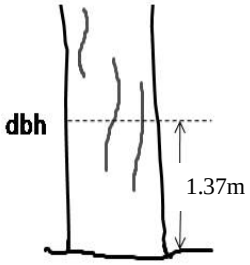
Annexure-XII

Measurement of tree diameter

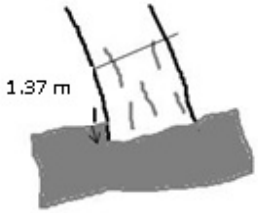
In the forest inventory work, tree diameter has been traditionally measured at 1.37 meters above the ground or root of the crown if the root crown is exposed, a point defined as diameter at breast height(DBH). The exact position of DBH is also dependent of individual tree form and topography. For measurement of diameter of a tree, callipers or diameter tapes are used. The following situations may be encountered in measurement of tree diameter.

(i) Flat ground
(ii) Leaning trees
(iii) Leaning tree on hillsides
(iv) Trees on slope
(v) Trees with irregularities
(vi) Trees with missing bark or wood
(vii) Trees with but Swell or bottleneck.
(viii) Forked trees
  (a) Forked trees below 1.37 meter
  (b) Forked trees above 1.37 meter
(ix) Live wind thrown trees
(x) Trees with curved bole

Diameter on flat ground: Measure DBH at 1.37 m above the ground.

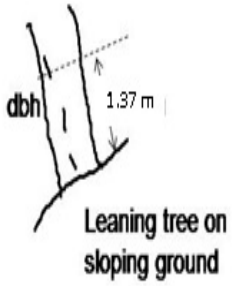


Leaning tree: Measure diameter at 1.37 m from the ground along the bole.

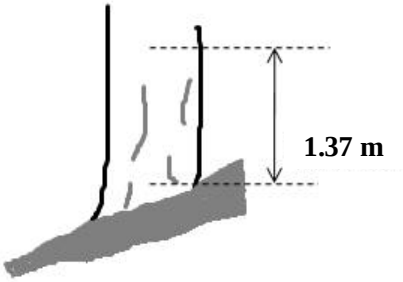


Leaning tree on Sloping ground :

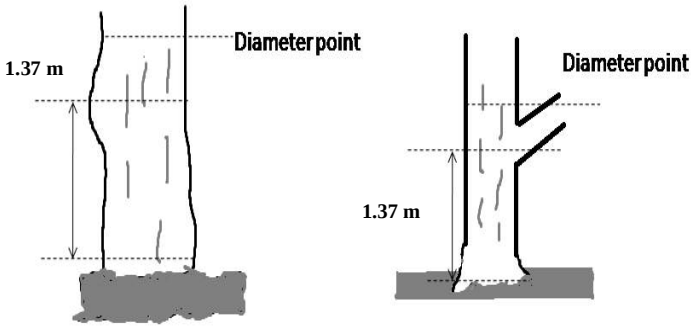
Measure the diameter 1.37 m from the ground along the uphill side of the tree.



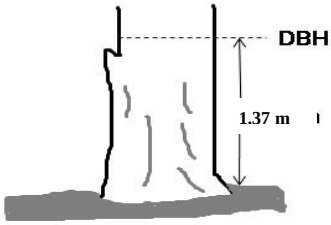
Tree on slope: Measure diameter at 1.37 m from the ground along the bole on the uphill side of the tree.



Tree with irregularities at DBH:
On trees with swellings, bumps, depressions, and branches at DBH, diameter will be measured immediately above the irregularity at the place it ceases to affect normal stem form.

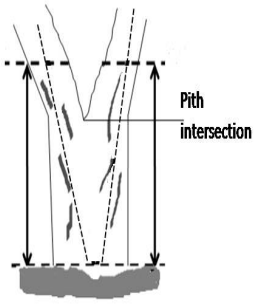


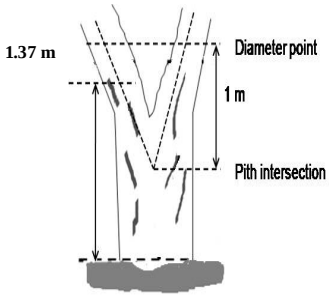
Missing wood or bark: Do not reconstruct the DBH of a tree that is missing wood or bark or at the point of measurement. Record the Diameter of the wood and bark that is still attached to the tree.



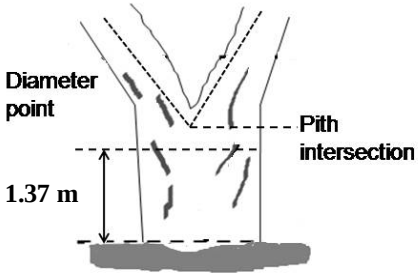
Forked tree: Visually locate

Trees forked below 1.37 on are treated as distinctly separate trees. Distances and azimuths are measured individually to the centre of each stem where it splits from the stump. DBH is measured for each stem at 1.37 m above the ground

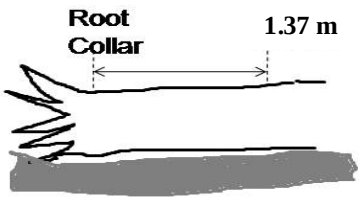




Trees forked at or above 1.37 m. Trees forked in this region count as one single tree. If a fork occurs at or immediately above 1.37 m, measure diameter below the fork just beneath any swelling that would inflate DBH.



Live wind thrown tree: Measure from the top of the root collar along the length to 1.37 m.



Annexure: XV
Field forms for TOF Rural

Field Form: TOFR –1

PLOT APPROACH FORM

Job No.	Survey code	Form code	FSI Zone	Phy. Zone	State code
1(3)	2(1)	3(1)	4(1)	5(2)	6(2)
	2	1			

District code	Stratum code	Grid code	Map sheet No..	Latitude dd mm sss	Longitude dd mm sss	Plot hilly or non hilly
7(2)	8(1)	9(6)	10(6)	11(8)	12(8)	13(1)

1. Name of Camp/District
2. Time (hrs.) at which left the camp/time at which move to the next plot
3. Distance covered by vehicle (km)
4. Time taken in journey by vehicle Hours Minutes
5. Time at which started on foot hrs.
6. Distance covered on foot
   up to the Plot Centre (km up to two decimal places)
7. Time of arrival at the Plot hrs.
8. Plot destination Mark (Name of village)
9. Time of departure from the Plot hrs.
10. Time at which returned to the camp/ time at which move to the next plot hrs
11. Navigation done by Name GPS/Compass (tick one)
12. Plot laid out by
13. Enumeration done by
14. Remarks

Name of Crew Leader
Signature with Date

Note: 1st number in the row below the field headings represent the column number and the number inside the bracket represent the column width.

Field Form: TOFR -2

PLOT ENUMERATION FORM

Job No.	Survey Code	Form code	FSI Zone	Phy. Zone	State code	District code
1(3)	2(1)	3(1)	4(1)	5(2)	6(2)	7(2)
	2	2				

Stratum code	Grid Code	Plot Status	Plot Ownership	Latitude dd mm sss	Longitude dd mm sss	Category of plot	Shifted Latitude dd mm sss	Shifted Longitude dd mm sss
8(1)	9(6)	10(1)	11(1)	12(8)	13(8)	14(1)	21(8)	22(8)

Plot Type
24(1)

S.No.	Species name	Species Code	dbh (cm)	No. of culms	Crown Width/spread of clump	Category of trees/bamboo	Bamboo Quality	Status of Tree
		15(4)	16(3)	17(3)	18(3)	19(1)	20(1)	23(1)
	Total							

Note: 1st number in the row below the field headings represents the column number and the number inside the bracket represent the column width.

Annexure: XVI
Field forms for TOF Urban

Field Form: **TOFU –1**

UFS BLOCK APPROACH FORM

Job No.	Survey code	Form code	FSI Zone	Phy. Zone
1(3)	2(1)	3(1)	4(1)	5(2)
	3	1		

State code	District code	Town name	Town class	IV No.	UFS Block No.	Mapsheet No.	Grid Code.
6(2)	7(2)		8(1)	9(3)	10(2)	11(6)	12(6)

1. Name of the Camp/district
2. Time (hrs.) at which left the camp to grid(plot)/moved to next grid(plot)
3. Distance covered by vehicle (km)
4. Time taken for journey by vehicle hrs.
5. Time at which arrived at the UFS block hrs.
6. UFS block Destination mark (Name of the Area)
7. Time of departure from UFS block hrs.
8. Time at which returned to the camp/move to next grid(plot) hrs.
9. Conspicuous feature selected as the starting point for the survey.
10. Description of the starting point and approach to this point.
11. Verifications of UFS block boundaries done by
12. UFS block Tree enumeration done by
13. UFS block Area of block measured by
14. Remarks
15. Maps of UFS attached

Name of Crew Leader

Signature with date

Note: 1st number in the row below the field headings represents the column number and the number inside the bracket represent the column width.

Field Form: TOFU –2

UFS BLOCK ENUMERATION FORM

Job No.	Survey code	Form code	FSI Zone	Phy. Zone	State code	Distrct Code	Town name
1(3)	2(1)	3(1)	4(1)	5(2)	6(2)	7(2)	
	3	2					

Town code	Town class code	IV unit No.	UFS Block No	UFS Block Area (ha.)	Category of UFS block	Latitude dd mm sss	Longitude dd mm sss	Mapsheet No.	Grid Code.	Shifted Latitude dd mm ssss	Shifted Longitude dd mm ssss
8(6)	9(1)	10(3)	11(2)	12(3)	13(1)	14(8)	15(8)	16(6)	17(6)	26(8)	27(8)

S.No.	Species name	Code	dbh (cm)	Crown Width/ spread of clump (m)	Category of plantation (trees/bamboo)	Area* in ha	Bamboo Quality
18	19	20(4)	21(3)	22(3)	23(1)	24(2)	25(1)

*Mention area in case of Block plantations only

Page No……. Total No. of Pages……. Sign of Crew Leader with date

Note: 1st number in the row below the field headings represent the column number and the number inside the bracket represent the column width.